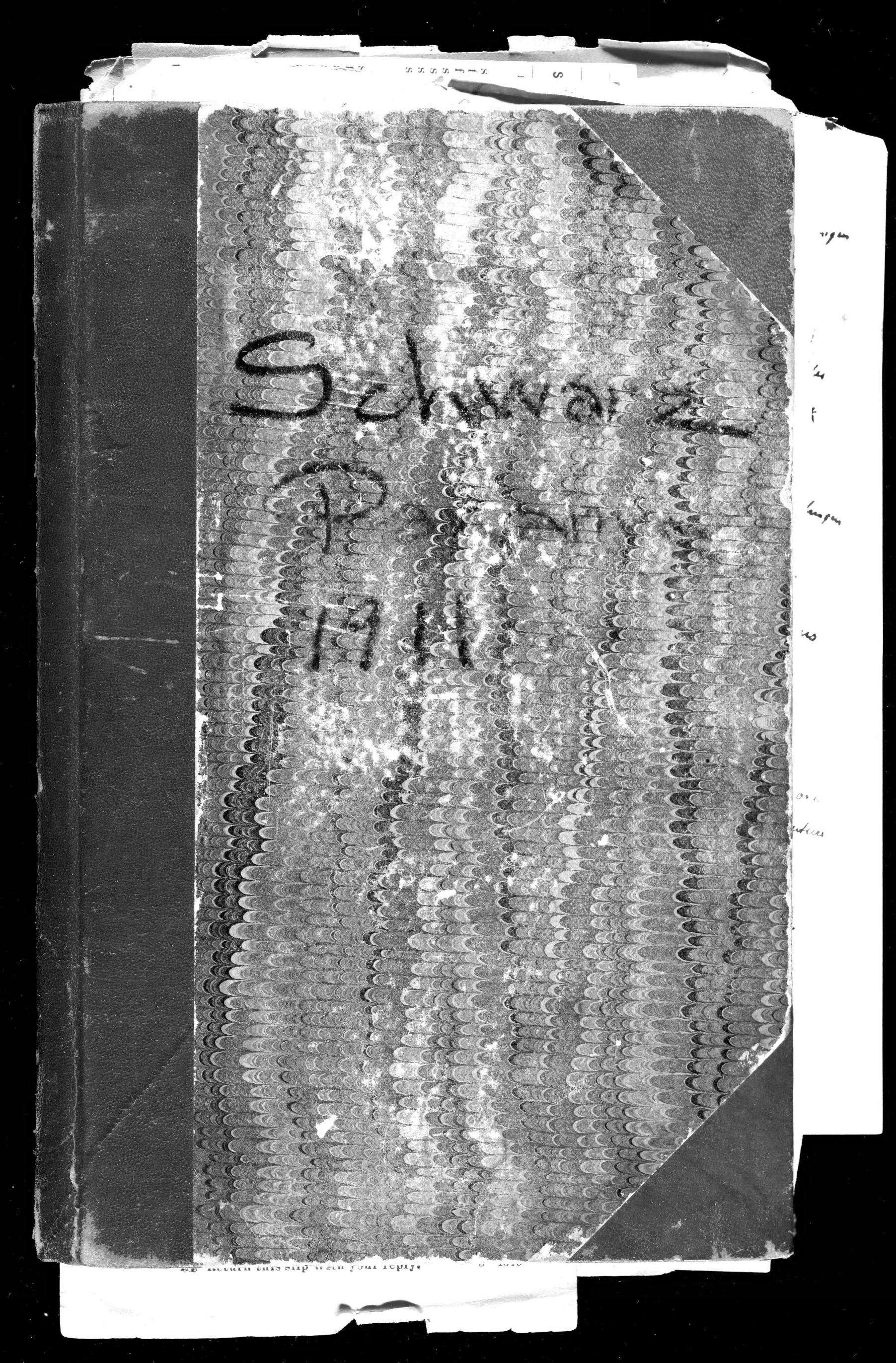
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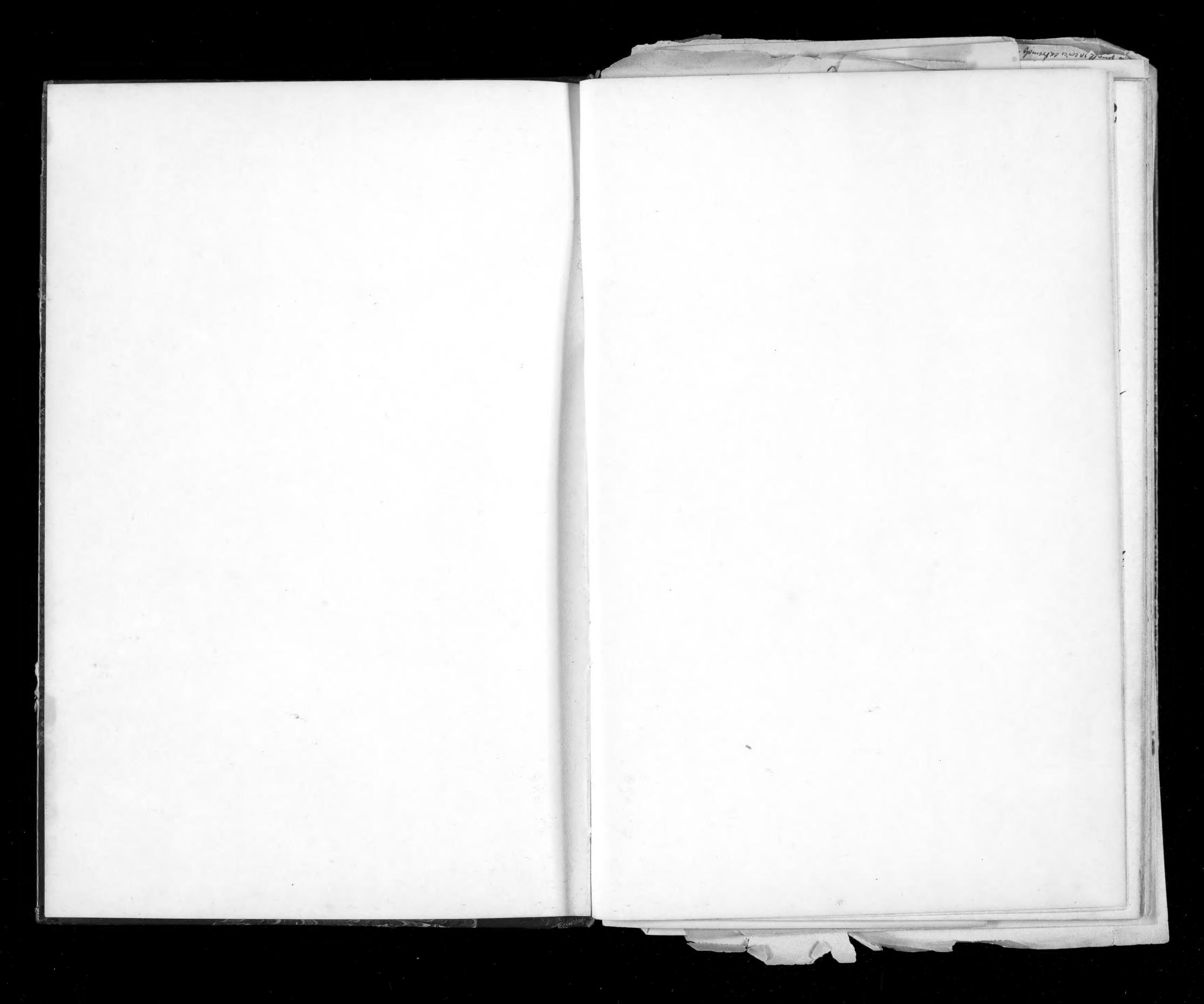
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Solveres s travelles Coverand incide page



S.A. Schwarz, Washington, 20 Jan. 3, 1911 to



day.

m'aijes

Pies

Saturday Jan 7, 1911

On board 5.5. Pananna. Weather calm and beentifully warm. At noon we were 665 these from hy nothing seen the whole day.

Sum day, Jan. 8, 1911

1. Courd 5.5. Panama. Weathy calm and warm. At 7 a.m. passed Watling Isd and other is land of the Bahamas, At more were \$9 \$ from hill. In P.M. passed Bird Ruck Island and Fortung Side Late in the wany some lighthouse on Cape Mayre, arba Frany ships seems Shower lesse in covering

monday, Jan 9, 1911

Fu board S. S. Parrama. Wester very warm and calon Hayti in plain sight toward the east. Cater we passed between Hoyti and havassa. At noon we were 1332 thiles from h.y. too.

Tuesday, Jan. 10,1911

On board SS Panana. Wester warme but showing in a mi

At noon 1793 miles from 2. 4

Wedsneday, Jan 11, 1914

Panama. And at Color about 4 a m und lawful about \$ 0 d. Hed Trouble in formbory how Smiths and Dr. Chaffeld Took 10:30 train for Paname.

Took up quantus in Dr Canfield's home what is drown town to buy slotling, took draws with 9 mrs. Jennings.

Panama. Sow Col. Southals this morning and went with him in his automobile to Culebra where we got passes the Returned at IPM to Panama where we we had a little entornol experience in a little part.

Friday, Jan. 13, 1911

Parama. Took Went to see Col. Gorgas, Col.
Philipps Maj Moules. De & Mr. La Prince,
Bath. Took the train for Paraiso, looked at our
quarters, made an exemsion (no collecting) in company
of Mr. Prickert. Returned with the Laborer train.

Saturday, Jan. 14, 1911

Pavaiso J. C.Z. Took the 10 to train out for Paraiso and found our quarters really for us, Ital to wait for storal hours for our baggage. That an excurion on the mountain north of our house following the drainage ditch to the plateer at the real foot of mountain proper. Vyetatron on both sides of the ditch of second growth. Having only my black unboth not very many justates were to be seen, still gute a

number of spacies use armong them.
Sunday, Jan. 15, 1911

Paraiso. Bus. K & myself again to the same place as yesterday.

Anthobid on dry palm leaves and dry barran leaves. Suriarys and Touchyponit on I flower of Allalee. Curculioned gall in stem of white-flowery shoul. Dute a number of Coleopera on the huskes and small trees at the edge of the untouched forest.

Heavy rain shower in P.M.

### Monday, Jan. 16 1911

Paraiso. We went across the hill to the creek coloridis not

Kerosend but at the place where we struck it proved to

be a great disappointment; only one off drophild (pakaps 2)

and a Spheeridiid to be found. There are very fore

moist spots along the creek which furnish a few stapky livides

Tackeys, twicrostemma etc. Quite a number of species were

beaten from the bushes on over way home.

In P.M. we went on the rear side of Hospital Hill where there is much curent grass along the edge of the timber. Here there is a very rich insert facena of all Ovolers, and it is manifest that all inserts that have on grass and other low plants have enormously increased in number on account of the culting of the timber.

Parairo Walked in a.m. again on the kill into the plantation where I was day before yesterday and found a lot of additional species, including some Carambyoidae in the dank timber where I came across an overlid garden.

In p. m. took very beating net and went agan & the countary, The beating net. is pretty much useless on account of the multitude of beggar lice the very quall Aprion apparently lives in them). Still a let of additional species were taken. I washed a short distance up the steep trail to the top and found a felled ledged of the steets.

on the Reaf of which there were plently of Freyswile galls, but I failed to find a living tree. Bush went in p.m. on horse back to the Granges Priver about 3 miles due north of lane Wednesday, Jan. 18, 1911

Paraiso. Went again up the hill but a little farther among the numerous drainage distitues along which the vegetation appears to be somewhat more varied. Black Brushes on Cassia. Queer brownish Hispid on a vine resembling Morning glory. Dr. Canfield called on us at noon.

In P.M. mede short excursion around the corner of Hospital Hill. Journal Himaticum and Porphyraspi; circum data an Stelicomia leaf. Went to Commissary store after disease.

Busck went at twilight around the corner of Hospital kill
Thursday, Jan. 19, 1911

Paraiso Went a.m. again up the hill and found a moist place near a polt palm voot whose many Stopky bridge (Exchormus, Medon etc) were quite abundant; also a large Osorrius, an unknown blackish beetle, Eumicrus and two Cavabidae. Found a cut off q aft effores cure on the ground and it proved to full of inserts, mostly Staphy lividee, the lest of which a megalops, escaped. Stood on the kill until 2 pm. In the evening took to train to Panama, Jennings is still sick at the hospital and is to be operated upon. Went to the concert with Busck and Mos. Jennings

Friday, Jan. 20, 1911

Paraiso. Petromed from Panama at 7 a.m. Must up the hill again and investigated more closely the cut off that palms found various additional and found various additional species. For the first time I found a deid tree with 3 or 4 Colydiid, Tachys, Historial species of Coleophera when the bank, one of which escaped me. In P.M. Busch got his eye injured. I made a short excursion areasly up Hospital hill through the ravine Cealing up from the cemetary.

Saturday Jan. 21, 1911

Paraiso Bush is badly affected by his some eye. Went up Hospital hill through the vacine. Jount the Star Apple tree discovered by Busch and callested some Colasters in the opened fruit. At moon the Jarre visited as and I took him to discuse. In p.m. went with the Tarr in the ravine above the Countary and while resting about 5 up the hill I found that there was some mostere in the ground and that there was some mostere in the ground and that there was some insert life is lette barabid, a Siphel was Color, a large tregaloderne etc. An Erotylid laws quite common over the surface of the ground bank covered with old leaves. Coming home I found Titley with his assistant and a broken arm in our quarters. The, Busch left for the Auson Hospital with the 6's train. A little Osciles quite common flying at susset was the Post Office. Wrate 3 postal cords to Barben. Pittier fold that these was still rain at Posto Belle.

Paraiso, made a long excursion on Hospital Hill ascending Through the vaccine on the cornetary. Continued to investigate The soil under weeds but found little additional material, hear the top found several out-down trees which from hed several mew species. Returned after 2 o'cl.

Monday Jan. 23, 1911

Paraiso. Made two excursions on Hospital hill, In a. m. went into the ravine above the countary and continued to search in the moist ground, found a Pselaphid new to me and 2 rather large weevil. In p. m. went on the northern slope, beating buskes and deald branches Ging on the ground. Jound several new species. The spotted Cassida and Astylus to be found on white flowery plant.

Tuesday, Jan 24, 1911

Aucon - No excursion. Pittier colled at Parenso this morning and complained at the condition of his hand. He says that Maxon is to come down the leaving high on the 22.4. Went to Auron to see about Bursh and Dr. Confield. The latter told me of the migration of a "buttaff" from west to east. The species is an Urania. Confield says that its larva feeds on Ficus. Went to there. Jeneight says that its larva feeds

Wednesday, Jan. 25, 1911

Pavaiso Left Aucon with the 10.95 train for Pavaiso Went to Hospital Hill by way of the Cumstary varies and descended by way of the northern trail. Heliconia inserts: Hispid, Evchouses and Staply Guid

near Triga. Several specimens of a Scolytid on deed brander of feeled treed up top of hill. In the evening a few Col. : Bustryclist, Xyleborus Sax maphbaens, Piestus, on the cut tree back of our house, hothing heart from Busch

Thursday, Jan 26, 1911

Pour aiso. Nothing heard from Busch. Went up the hill and collected in the plantation. Many species of Hispidae to be found in the unopened leaves of Helicomia. Several Cassidids on vineo, Large Caryoborus among Attalia nuts, Leech on Helicomia leaves. In p.m. went around Hospital hill, using my beating net among the evereds along the edge of the woods. Most insects caught this way make their escape; still a few new things found. Later, went down the hill below the cerutary and after some troubh collected some new things (Tachygonas eli) among the thickets along the lowest excel. Sot some empty boxes from the store Keeper.

Friday Jan 27, 1911

Parauso In a. m. went to the Hill plantation; sifed the piece of female flower mass of Attalea but found only one new thing.

[a Histor?]: Then siefted The ground near the old palm root without much success except 2 specimens of Auchonia. Used the beating net in the plantation; a black Hispid. Looked at the flowers (perhaps fouis) of broad leaved Heliconia; a vid and black Hispid, a Torrhoptograd and Trehomes and

At noon Burch returned from Ancon. Journings is not to be operated upon. Want for a few minutes around Hospital Hill: a large Eburia and a queer egg-mass of a Leaflyn ", on very spring Soloman. At deak found an unknown, Colodial attracted by the freshly felled tree near our house Saturday, Jan. 28,1911

Paraiso - Mr. Pittier, his assistant, Mr. Christophenson, Mr. S. B. Verner, Matachin, Sanitary Office and colored servant came over from Culebra at 7 och. West out with them on Hospital kill to get the big Bouchenia vine and then went to the kill plantation to show them Mr. Werner's overhid garden and the Carao trees found by me. Pittier gave me the name of the white-flowering plant in the storms of which there is a Curiulionid gall and on the flowers The Astylus occur. It is Melanotheria hastate. What I hitherto considered as the Attalia palm is the hut palm. Did not do any collecting this morning except that I found several sperimens of a fine Geracing on the cut edges of a hut palm when the wood is tolerably dry 2. p.m. went out with Busik on the Hill plaintation; found headytus on vine which I not yesterday Continual seart in the flowers ( ! fait) of broad leaved Heliconia and four various additional species: 2 Belonuchus, Sphaevidium, Bartridium, Cergon, and a brillant Lebid. Found some more specimens of the

Nut palm Geraeus; also one specimen of another Centricid.

Collected a dipterous pupa in flowers of broad-leaved Heliconia.

At dusk collected on the frestly felled tree another Colydi; d

and a Colastus and a Bostrychid.

Sunday, Jan. 29, 1911

Paraiso - Intended excussion to the Pedro Miguel River bet carne only to the large creek about 2 miles from Paraiso Aquatic farma not vich in specimens but apparently with in species. A large Eluis quite nou to me ; a Heterholmis, a Parues or Pelonomers, anothe gener of Parcida, some Sphain'dida and some Byrrhidae. Facus under wet loaves very poor. On the naked hills near the new railroad on Anthirus quite consumon on the young growth of the sturys. Bank collecting on the the felled trees very poor: Brunthid dispiners, Doliuma Lainephloi us Under back of dead tree near old powder house a Sosylus (?) and a Lissinum hight excursion to the cornetary: only . few Colooptern came to light: a Parnid, a Coptadera (1) and an unknown thing. Pittier says The hut palm is Elacis melanococca, the broad-leaved Heliconia is a Salathea, he Casas tree on the kill is Herrania is sp. Met Goldman on noon train book from

t belongs to Jan. 30 ]

Monday Jan. 30, 1911

Paraisor - Went over to Culebra and met Pittier but failed to see

(ardulovica palmata)

(ol. Saillard. Small weem's on flowers of Panama hat,

Cardulovica palmata.

The Panama-Hat palm.

confort

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bus

e of

7

- . - pronoces of the anama-not - palm commence to

Boat a large Rhyssematus from busher

Cardulovica palmata.

The Panama-Hat palm.

Nut palm Geraeus; also one specimen of another Centricid.

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L'belongs to Jan. 30]

Monday Jan. 30, 1911

Paraiso - Went over to Culebra and met Pittier but failed to see

(ardulowica palmata)

(ol. Gaillard. Small weeds on flowers of Panama hat

palm (perhaps two species). Ennear thron in tres fearges. Returned.
To Paraiso with the 12.03 train.

From dead vines two rough wearils

Paraiso West with the enomination, to Parama, took breakfast and hind corriages for Old Panama, pursung through the Savenments Collecting done in a wild way, bealing the bushes. Fauna and flora differ couri deably from those at Paraiso. Preturned in the evening to Paraiso

Revaire Weste up excount up to January 31st. In A.M. small excursion to ravine above cometerny! Most things collected occurred and bank of felled tree; Bactridium, Conotalus, Glastus, Platypus Xyleborus, small Homalota. A few other good thing, Authoromus and rough wen't from dead branches darge Tembrio and un der dried plant. In P.M. went to hill plantation and investigated the traps:

The rat pelon nats only produced the big Congaborus and attemption of the split polars leaves produced plants of two speces of Continued at some laticulated. Sifted a lettle among the old logs in the wood near the house. The florous of the Panemo hat palm commence to the active and the gellow special and makes in a few specimen.

Boal a large Thyssemalies from bushes.

### Thursday, telernary 2nd, 1911

Paraiso Took the morning train to trataching theme by Cayugo up the Chagres river to has Cruces and thence up to Ahrguela Investigated our future quenters, now in charge of young Mr. Booth, Returned to matadis, within 3 hours, and There to Paraiso. No juscets collected on this top. Friday tobruary 3 -, 1911

Paraiso - Stood at home the whole day, Busok telephoned to Me Saville about our proposed top to Ahlajuela and we were

· requested to postpone it for a week. Wrote letter to Dr. Howard and sent 3 parkages (has 10, 11, 12) Wrote letter to Mr. R. Boots at Matachin, C.Z. Saturday, February 4th 1911

Paraiso - Wout with the morning train to matachin and then walked up through the shrubbery to Las Cruces arriving there at 9a.m. Busck went back by Cayuga ingself walked back and did a little collecting A few new Chrysomelidae occarred on the shrubbery. A Parmus queste common in the two creeks on the way another Parnid (?) genus quite vare and difficult to capture. A Cerryon and a Belomerhus in the flowers of a very large Heliconia which contains a great deal of water. Petunes to Matachin at 11.40 but the train was late. Returned to Paraiso at I od p.m. Kair shower in a p. m. Vook the evening train for Panama

# Sunday February NIT, 1911

Paraiso - Returned from lanama with morning train. Went up Hospital hill Through the vavine, Found two species of Pselaplids fore very small) is the pile of weeds, also some good things (Curryid) on the trunk of the freshly felled tree. Farther up a red Chalepus & 2 specimens) on on a small bush and a number of an entirely red dia (Hispid) on another small bush among up, a Colarpis is not rare of the dead leaves of a felled tree. at the top the hill is very dry and expanently without 1' much insect Jauna. Lu going down Monday February 6th, 1911

Paraijo - In A.M. went up to Hill plantation, investigated the cut leaf stoms of heit polini and found on additional speries, on mariens Went up the hill back of the orchid gardens and found enany good things by beating the vines whereou it was possible. The best thing is a beautiful Otidocophalus, Thur a Stativa and other Prings, A small yellowish fungus fuerished a bended Platyden and a whitish fungus on the same log a colony of a handsome Triplax.

In P.M. went down below the countary and beat the busker along the lowest creek. Found some good think a small Pselaphid, a malachied a Lebid and a ved Apion. It was very warme to-day Tuesday February 7th, 1911

Took the morning train to Bobio, west into the expirit oally south of depot. Heavy dew. Tound a creek without running wals but with mosit bottom. Then is a this layer of old hours and then worst lath or sand in which a number of speries

occurred which I did not meet elsewhere, among is a most minute Pselaphid (2 sperimens), a Pfenidium (2 sperimens), a Cyphorid (numerous), an Ataenius and some other species. They are parked in a sprarate will box duly labeled. The beating of the vines and breskes produced some new Kings, but not very many The decaying male flowers of the Bananavar produced a few Mings. Took direver at the colored quartermarker house but my returns trip to Parciso was greatly delayed by the burning of the bridge across the canal

Wednesday, Febr. 8, 1911

Paraiso. - A.M. went up to the Hill plantation; looked at the c'est palm leaves trap without finding anything new. Went up above the orchid garden and discovered quite an insert fauna living in the cut touchts of a free with very tough fibrous bank, which is full of moisture (Priviously I found an Ounalodes in the same species of tree). and most inserts are difficult to dislodge from the fibres, Besides of the usual fama of Evilionius, Cerryon etc. There were a fine Nanthopygus, numerous Piestus and a layer species of the same group; two species of small Historids and two most delicate Staphylinidae, one a specier of - - The other something near Thoracophorus. Beating the bushes not much indulged in and nothing important found. In P.M. very 3 hort exourmon around Hospital hill and up the ravine. The trop of rotter Grape fruit funished a second example of a Silphol;

besting the bushes with poor success: on small weir'l and an Attelabres. Looking at my hay trap, no success, from a stick of old wood befeat the Erotyled of which I have larvae and pupal.

Thursday Jebn 9, 1911

Paraiso: A.M. went to Hill plantation and continued to invertigate the found , he additional species taken. Beating the vines up to the cliff on the hill gave poor result ( Eucuemid and some wewils ). In P.M. went in the valley behind the Horpital hill and found a felled tree under the bank of which a large number of species new to me were found. Also or few good things (Teretriosoma, Clevid, Eucuenis) beater from felled trees which had still fried foliage. Those collected in I'M, are in syranche poll box Friday February 10,1911

Paraiso West over to Calebra, sah Pittier and spoke to him about trip to Porto Bells and Chirique. Saw Mr. Trask the Sangtang Officer. Went to Col. Forthards Auf Clerk, M. Mr. Ilw ain and arranged about forts Bells trip and he promised to send us Boat pass and Assignment to Paraise en som as practicable Saw Cal. Garland. Wout home with the noon Train.

In P.M. went again on short excursion to the valley believed Hospital hill red continued to investigate the faller lag four one or too additional species. Best a few good thing from the deed boliage of cut trees. Also a few things from young shoots.

whe of good

Pittier has an Acrosinus Congiornaises at hand, probably for near Calebra, and Col. Saillard told of the aloundance of Megasoma exceptions in the vicing surgon. The species occurs also at Alhajuela

Saturday, Febr. 11,1911

Paragio Mr. Bath, of the Sanitary Dept come out early this morning to see how we collect insects, and we corried him coron Hospital hill to the valley opening towards Pedro Miguel. I continued the investigation of the bark of the felled trees, and beat a little the bushes. A Sen Knew Things were found. Very heavy vain shower with Thunder i's the afternoon lasting almost 2 hours

Sunday Febr. 12, 1911 Paraiso. Heavy vain last night and mistly the whole morning. Heavy vain in the early afternoon and light rains afterwards until 60°d.p.m. Remained at home the whole day and parked inserts for Washington (parkages 14 and 15), Mr. Henry Schwartz, Pedro Miguel Engine House, an amateur insert collector, pard me a longthy visit in the p. m. Ir. Perry B. Preston gave as a introd. Ette To Sr. Will Tibron, Porto Bello.

Monday Jebr. 13, 1911

Paraio Heavy rain in morning. In P.M. went to valley behind At Hospital hill and beat the young shoots growing on tree steenys. Found several new species. Parked Traps for Porto Bello

U. S. DEPARTMENT OF AGRICULTURE	9
BUREAU OF ENTOMOLOGY WASHINGTON	
BUREAU OF ENTONOLOGY	
MAY 22 1913	Train
P B O Desquiptible 1912. 191	train.
	Port Bello
Respectfully referred to:	
E.A.Schwarz?	toru.
No. 31. Taboga Loland. Nov. 1912	
No. 32. Taboga Island. Nov. 1912	Every thing
	master is
No. 33. Taboga Island. Nov. 1912 Very common.	ycha seems
No. 34. Tabega Island. Nov. 1912	
Me. 35. Maboga Tolland. Nov. 1912	7
No. 36. Taboga Island. Nov. 1912	Terrals dur
Specimens found also in Aguadulce	il leading int
Penonome atc.	L'axion at the
No. 37. Neur Primame City. Sert.	1912 . reek side.
Also in Pononomd.	,
No. 28. Nour Parama City. Sont.	1912.
No. 39. Road to Corozal, C.Z. Se	secres of
1012.	the same
No. 40. In Parama City in old rag	spteryx, genus
No. 41. Boquete, Chiriqui. July I	1972.
	bout on the
csm/bk	The Levelling
Return this slip with your reply. 5—154	19

#### U. S. DEPARTMENT OF AGRICULTURE BUREAU OF ENTOMOLOGY

### BUREAU OF ENTUNULORY

22 19 13

191

Respectfully referred to:

I.A.Schmarz.

No. 31. Tabega Medalle. Nov. 1912.

No. 32. Taboga Island. Nov. 1912.

No. 33. Taboga Island. Nov. 1912. Very comon.

No. 34. Tuboga Island, Nov. 1912.

Mc. 35. Toboga Igland. Mov. 1912.

No. 36. Tabora Island. Nov. 1912. Specimens found elso in Aguadulce, Penonome sic.

No. 27. Neur Pamame City. Sert. 1912. Also in Penonomo.

No. 28. Noar Parama City. Sont. 1912.

No. 39. Road to Corozal, C.Z. Sept. 1912.

No. 40. In Panima City in old rags.

No. 41. Boquete, Chiriqui. July 1912.

csm/bk

JAN SELEL



Ports Rells Fancoura March 19.17.
SMITHSONIAN INSTITUTION.

UNITED STATES NATIONAL MUSEUM.

Dra hu Johnan Just down Josen Two days trip up the Buena Pratum virus - when among Ther they a got Electric light Grofler 2 spp gelon Frank four of 16 heng Don't wany about four which for Shown han it End of their Esminy work - I take the facility alpay on the me to help carry my Strift. Ger him 6 dollars for as Soll for last month 4 though il van lensuch - Shew gir him some theing more neggetle. for coming along with me, of Course - Off to Rombres to them + Tuesday horseback to Kinhuna.

Than In Jun end The wish - Hope for Ripad up the Jennings motter & enry bodies Lation-Jackion, has a letter from Thim, whom Shows them anxons about it. acc one -kope Vm Dame is de with Jon-Iffon han rol aloraly Commilled Fourself octher go Mon on the Li Kince matter (Light) - I asked him Howard Ime Time ago and Rad his amour last mul indication that he is not write to have us Day any Hing of the his experiments, bufon he had have as his experiments, bufon he had have as his each town as. Attalea gomphocera
from Panama

See Pitties hat Seop. Sor 23,

July 1913

Pittier has an Acrosinus longiornainus at hand, probably four near Calebra, and Col. Saillard told of the abundance of Megasoma elephas in the rainy season. The species occurs also at Alhajuela

Saturday, Febr. 11,1911

Tarking Mr. Bath, of the Santary Dift come out early this morning to see how we collect insects, and we corried him around Hospital hill to the valley opening towards Pedro Miguel, I continued the invaligation of the bark of the felled trees, and best a little the bushes. A few the new Things were found, Very heavy vain shower with Thunder in the afternoon lasting almost 2 hours.

Sunday Febr. 12, 1911

Paraiso. Heavy vain last right and mistly the whole morning. Heavy vain in the early afternoon and light rains afterwards until 60°cl. p.m. Remarked at home the whole day and parked inserts for Washington (parkages 14 and 15). Her Henry Schwartz, Pedro Miguel Engine Home, an amateur insert colletor, park me a longthy visit in the p.m. Dr. Perry B. Proston gew as introduction the Est. Will. John. Porto Bello.

Monday Febr. 13, 1911

Porto Bello. - Storted from Parairo with the morning train.
Very bod arrangement of reaching the steamer at Mt. Hope loaded with heavy bappage. Rea Started at 9 am. and reached Port Bello a little after 11 och. Had some trouble in having over room assigned. In P.M. ABOK gasoline launt for Old Porto Bello to look at the place. Rain showers during the whole day. Everything is dripping wet here but stenery charming home of Quarternaster is Morgan and his young assistant Carpenter, A striped Disonytha seems

to be common on a species of Polygoneum Wednesday February 15, 1911

Porto Bells. Rain during the cuttre injectioned at intervals obtaining the day. Want to the old Fort and tried in vair to find a trail leading out the woods. A fine ween and a Distriction on the cut vegetation at the edge of the woods. Arthronicos render a moss-like plant on creek side. Signitic Actionius in the tember just behind the Fort, Three is another Hispid living an the unfunide of tress leaves also two species of good-lized Coccincllids and a Scymnus. In from went to the same place sifted a little among the wet leaves (1 Belphid, 1, Trichopteryn, genus of Aleschavina); on the few places when the unbrette could be used a few things including at Petituota and a Pyrophorus. A mordella flying about on the weeds. This locality is not good but readly accessible from the development. Busch had gone to Old Porto Bello and four a large neurola of good

Thursday, February 16, 1911

Porto Bello. - Went with Busch over to Old Porto Bello, followed the old trail westward (vay muddy) for about 12 miles and then twent into the valley of a creek. There does not seem to be any riparion facina of aquatic insects only a (4) Heliclass and a Hydraena could be fount, a to Chastarthria was seen. There is very little apportants of beating the vegetation along the creek itself, but Busch found a very time Hispid (genus? Leohispe; vid with black margin) as the leaves of a Palme. The still volled-up leaves of the Heliconia are rich in Hispids: 1, a straped species, a poundle red species, and a large spectral one (on specimen); a very large Hispide with banded clytra (19ecimen), a fine Cavabid (one specimen), all a large Trichopterygid and a springer Thrips (not collected). A larger red Hispide from a palm leaf.

The vest of the insert, collected on the clay come from the shoultbery along the higher bank of the creek when the forest has ben cut down yours ago. Took disease at Old Porto Ballo.

Friday, February 17, 1911

Porto Bello. - Went back of the Old Fast up some destance in the valley of the little creek. The whole little valley is rather a Barana plantation. From the volled-up leaves of a very broad-loaned Heliconia, I got still another Misprid. Some good things were beston from dead Barana leaves and els whose but here as sverywhere else places for beating are scares.

In P. M went up the trail to the second fort, but found very little.
Was caught in big rain shower,

Saturday, Febr. 18, 1911 Porto Bello. - Went behind the old Fort, sifted a little (a fine Authorid, a Iseleptid) booked a little on the underside and in the volled up leaves of Heliconia and foundmore specimens of the two larger Corriellidee (also a Segmentes - like one) and some of the Hispids. Climbed up the hill a little and found within a rotters branch a colony of some out, workers and cluming soldiers and in the midst of the same a queer Goindeld Carva, very sheggish is its movements On the vines and buskes a little Ecceneral beetle and some other good things. Tirelly best the low bushes in the dearing, and found a few good things Close miniony between a Leng and Dhabrotira orrarring an the same bush. In p. m. short exourson is the open grassy slope between our house and the Fort; not much of rousequere Takers. Busch went over to old Porto Bello to-day Only one little shower today. Sunday Febr. 19, 1911

Porto Bello. - Went from the Old Fort along the edge of the forest up the hill. The locality looks excellent but furnished comparatively few new things. A very large forciate Hispid, having the appearance of an Irotylid in the half-opened leaf of a Heliconia, an Octobour on an unknown should Two or those ween's new to me including a Composes. Weather fair deering excursion, showers in the early morning and in the afternoon

Monday, Febr. 20, 1911.

Porto Bello - Wout over to Old Porto Bello and followed The new road to Colon for about I mile. Every thing dripping wet from the last vains. Commenced to collect at the old cleaning some distance up the hillride. Plenty of insects on the bushes, everything of being wild and only a small portion can be captured. The bright i , red Hispid and the smaller red one with black margined elytra als on the underside of a palm which may be the Attalea. Other Hispids as usual in rolled up leaves of Iteliconia. The peculiar black and the gregish weevil has a definite food plant: it is eats a hole in the an scurface, probably from the upper surface than forces its way into (1 the hole towns its body sidowine and enlarges the hole. In this position it resembles a piece of bord dung closely. A blue The Haltierid lives on the flower of the same plant, In a little his overk their crosses the road one specimen of a tigoloophished. at Want some distance into the dark woods and beat some good Mings; several Curculianidae and a Strongglas. A par (in copula) of a great grewish gray Curculionid; clouget with tuberculate elgha and a pair (in ropula) of a Jygopid on buskes. Returned at about 3 a cl. p. m.

Tuesday, Febr. 21, 1911

Parto Bello - A.M. Went to the same place as yesterday i.e.

just lottle above the cleaning along the Colon road and got

various additional species. A Belaphid (4 specimen) under

bark, a fine Hispid (red clyping with black centre) from

underside of a small palm tree, a fine kultribid, various weevils, a Colydi'd etc. The place where these things occur is a small very dark varine close to the trail, Some good things escaped me again. Came home about 3 p.m. On the cleaning ifself some good things (Baris, Captarus) etc. on the young shoots of shrubs, A small Epilachua quite common on and districtive to the foliage of a bean-fike vine (no flower seen.

Pavaiso - Tood the try Ports Bello at Ports Bello, 6 am., went
To Colon Thence by 10 o'cl. train to Panama. Sat dinner at
Angelini's and lought a weelch. Returned to Pavaiso unto the
4 p.m. train, but he Redolph Wener, they Orchid man.

Thursday, Febr. 23, 1911

Porto Bello. - Lift Parasis at 6 30 am, went to Colon, took The

tug Porto Bello at dork 13 and arrived at Porto Bello a Gibbo

after 12 o'cli, in very heavy rainsturm. Arranged trapin P.M. At 4 made

short excusion in the little creek vally bilied the old fort, beating the burkes.

An Carabid buth, a Pselaphid, a Tembroides (very small) an Otidorephalus aus

an Elaterid seems to be new to my collection. A Cassida of an Convolvalus;

a Shiring black Baridid (3 of 4 specimen) on a small Acacia-like

bush without thins.

### Friday, Febr. 24, 1911

Porto Bella. - Very heavy shower at 7 a.m., Wrote letter to Barber and parked Ggar box of poll boxes to Howard. In P. M. went belowed the old tox toxt. On the way Gold unda The bark of the old fallendown tog tree on the beach: found a fine Colydiad, I Platysoma, I, Carcinops, I Econewres, several dispinces. On the slope of the lill lest with success the dead Banana and Itelicomia leaves; several fine weer's and a lot of good things were these obtained in a short time. A fine Phinzophagid from a borsh; a genus wear Telephanus from all Banana laws.

Saturday, Fibr. 25, 1911

Porto Bello. There was no rain curt. Clate in the evening, In a man made short excursion to the old First and beat of the old Banana leaves and other bustes. Found a Clyter (badly injured while handling) a queer Stilicopsis or allow genus, a small thisterid and another specimen of the Endomysish resembling the genus brotchia. Found until the following insects: I treches; I thenicorephalus, 2 heptoeinus; I thenicorephalus, 2 heptoeinus and a number of largar Col. larvete heistes some Dipterous pupat. Returning before 10 och next mr. Claveland who brought me to his tent house at the very point of the peninsela.

Went to the little beach of at the power house but found only a single specimen of a Phalenia. Went to look curder back of the cut tries seein the street and found a rock found hark of the cut tries seein the street and found a rock found.

of Colydidae (possibly one specimen of a 3rd species), a runakable 4-spotted species looking like a Rhizophagus, at least two species of Lispinus Laemophlocus, several species of Lispinus and allied genera, I Kanthelinus, I near Homalota, I Cossonas, I Ischyrus, I Doliema, 3 species of Forficialids and the cesual number of sawbugs. There was an light-brown Elaterid larvae.

Sunday tebruary 26, 1911 Ports Bello = Excuesion to Old Porto Bello, up the road to Colorn Looked under the bank of two logs ( ! fig trees) and found . a Cryptorhywhid beetle in Their cells just below the bank proper; also one pupa (preserved with immature imago in alsoholf. In Dame log found pupa of an Enteremid beetle (put in vial to bred and unda the same fragment of bank on lucuemid larva (put in alcohol). Otherwise the fate back facus was not remarkable (A small selaphol fond unter book of another lag) the sperimens are in reparate pill box. In valled-up leaves besides its usual istriped Hispid (and one entirely red; another with black tip of elytra) several sperimens of a very large Erotylid Hispid and two sperimens of what is most probably the larva (in alcohol with image). Rain all the time, fixed up a beating met and went into the timber above the cleaning: a dyrid larva; Hydenocera, very ant-like on underside of palen leaves; Himatiolium olde but only on a ringle tree. Large Tomarus on old leaves of out tree in tipper cleaning,

In the evening Busik four small Thengod'd Carvae apparently not far from one houses the says they live in holes in the ground and retire into the ground upon stight disturbance. Then hight is green (not green's yellow), most course ourse on the head but not all over the same; there are two pairs of beat-total like luminous spot near the hid end of the body (once pair on each of the penaltimate segments). They are very quick to their movement.

Monday, February 27th, 1911

Porto Bello - Very heavy vain in early morning and screed in p. m. and evening. Went behind the old Fort and found under the very this bank of a felled tree the following: Acritus, one merimen, Paromalus (or Carrinops) 2 or 3 sperimens; Thoracophorus I spleinen; oly small Erchomus (many specimens seen), genus near Homalota, several specimens, Piestus, several sperimens, Eleusis, 1 merimen; near Eleusis, 2 sparineus. In two Kinds of fungi some good Kings were found notably a black Aleocharid looking like a gigantic Microcera and another much smaller species, also a Gyrophaina, 2 species of Scaphisoma and the reddish species allied to Gyrophæna. From bushen I beat a beautiful Eunemid, a deptostylus, a fine Hydnorera and various other good thing, including one specimen of a Hiprid (yellow elytra with black secture). All other Hispidae caught to-day are from Heliconia except the Himatidieun which occass on the underside of the broad-leaved Iteliconia. A Phynderus

on the leaves of the Solanus with spinous leaves. A fine Conotracheless on dead Banana leaves. A Belonnehus (?) in the nollect-up leaves of Heliconia. Banana.

Tuesday, Febr. 28, 1911

Porto Bello. - Weather fair with only a little shower is p. no. Made an all day excussion along the Colon road on the other side of the bay. On the upper edge of the old camp there is among the open skoulding the vive which is the food-plant of the little Epilarhung but there are also The mines of two species of small Brypnestids. In the heavy timber forther up a large number of insert were beaten by me which I did not find before, they occur mostly on the low plants and low bushes. A vine or branch for above ground furnishes but little. A short and comparatively easy walk through thorwary dark timber bring, one to the edge of a large clearing where the cut branches of trees, palms etc. form a great thicket. On the trees lying on the ground and on which the foliage over still adhering another large set of insects occurred. It is quite impossible to tell when their clowing has been made, some trees look as if they wer felled yesterday, in other case, large shoots have grown from the steemps. A partial list of the see new 3 peris four is as follows: Monordus, Tachygonus, Xylophilus (2 species, one short, the 2nd slongate, Petalicum (?); Cyphonid (with redaw black Thorax); large Søydenærner, Small Elaterid, two or three small bririnellids, malthodes; Green Hispid (very rare; food -plant not ascertained); melandry i'd, Languy ords of, These all in the dark timber. On the folled trees: Heuris, hemosoma, Bactridium Various Eignemids and Geram byoids, two or three species of Corrinellids. There

are also various species of Aleevils and Authorbids not enumerated Wednesday March 15, 1911 Porto Bello - Repeated the excursion from yesterday. The trees in the cleaning were not as favorable as yesterday. Still some good things were obtained, but the lower plants it the clearing produced again an astonishing member of species never found before: The following being a portial list: Red Hispard from pelm leaves, dock Hispid with reddish clytral margin from underside of small Heliconia uitte reddish stem; black Higgid with long legs ifood plant unknows. a small acción enthe variegated elegtra, Orthoperus on leaver, a Trihopteryx quite common under old leaves, macravilleria sp. (one specimen); unknown brownish beetle (one sperimen). Stilicopsis sp. (one spevimen) Small Anobiid (one specimen), a red Halticid (one specimen), a hilia (one sperimen), a Stenotarrens, an unknown Explorid, a large Corrosoma, a very blækt Ptilodastyla, longe blue Coloinellid (ave sperimen) Chilocorid from planto leaf (one specimen); larger stalticid with red thorax (one specimus); a Cavabid etc. There are also new things among the larger sperimens and among the wearils cohich I did not investigate To-day's catch occupies & 4 pill boxes. There was no vain to-day

Paraiso. Extremely heavy rain shower between 6 and 70°cl. Stood at home and left for Colon at 1 p.m. Saw The hostenester, by. Fichtig at Cristobal and Took the \$7.30 p.m. Frain for Baraiso, Somebody then gave me a Englodon.

Paraiso - Went with the moving train to Culebra and get new Hotel and Commissay books, saw Col, Southals and Sallard, Met Mr. Picket. Took the noon train to Panama, get my watch and returned to Paraiso with evening train

Paraiso - Overslept my, eff! so can not veture to Porto Bello before Monday. Fixed up a reserve unabrella and went to top of Itospital Hill by way of the rawne returning by way of the steep trail. Found a few subtile things in my old hay trap (Authorism, Soydmaine, Pschaphed and by beating a few good ween'ls. The district is now

Pavaiso Went out in a. m. behind Hospital hill; beat the dead branches of the dead trees and the young shoots on the strongs of felled trees with moderate sucress; Lathropus and small Authoromus. Collected was bank of the felled trees; a fine Drapeter and a Scolphid. A fine Corrulated on shrabbery. All this finds in volled up the tromica leaves. In pin, went up to the Hill plantation and sport several hours with Mr. Homer. After suppor went to the matrix willing on the brink of the Cours with the matrix willing on the brink.

Monday, March 6, 1911

Parto Bello - Took the morning train from Paraiso

To Colon, Had to walk to Dock 13 but caught the

"Porto Bello" which brought me to Porto Belle at

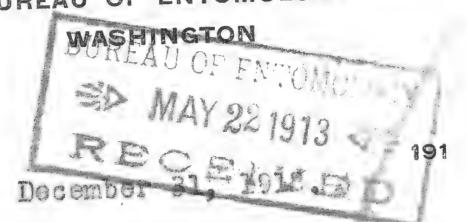
12.30. Busik went to Panama with the return

trip of the boat. Made a little excussion back of

the old Fort but did not from much of consequence

Tuesday, March 7, 194 Porto Bello. A. m. went over to Bed Porto Bello along The voad to Gotan Went down into the hollow below the old camp and beat the bushes and sollated under bank of the old tree below the trail. Went into The heavy timber above the cleaning and best The bushes. Many new things were caught. The Trail I took a possibly the old Colon trail. All Hispods taken to-day (except The very large modulate ones which occur is Achieonia) are from palms. On vines in the dark forest 2 specimens of a & Salpingid. An unknown blessich beetle (2 speriencus) from breshes below the old camp, Under and within the bark of the log below the big fig Tree a Scarabacid larra is common and since I found there are imago of Atalinices, the larvae may belong to this genus. The two small Diptera are from the rolledrup Heliconia leaves,

#### U. S. DEPARTMENT OF AGRICULTURE BUREAU OF ENTOMOLOGY



Respectfully referred to:

Mr. E. A. Solwarz.

National Museum.

(For determination.)

Specimens received from Mr. H. G. Irones, Box 175, Ancon, Canal Zone. Wishes determination of specimens and family to which they belong. Specimens need not be returned.

Specimens numbered as follows:

No. 26. Collected in Taboga Island in November 1912. Other specimens found in Penonome.

No. 27. Taboga Island, Fanta City & in many other localities. Common.

No. 28. Taboga Island. Nov. 1912. Very common.

Mo. 29. Taboga Island. Nov. 1912. Not met in other Accalities.

No. 30. Taboga Island. Nov. 1910.

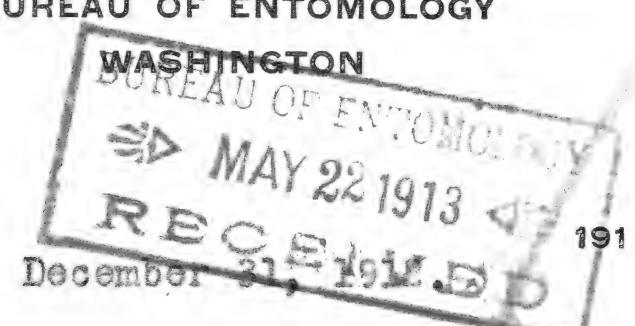
Also in Penonome. Common.

AN Selection

Return this slip with your reply.

191

#### U. S. DEPARTMENT OF AGRICULTURE BUREAU OF ENTOMOLOGY



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No. 30. Taboga Island. Nov. 1912. Also in Penonome. Common.

csm/bk

JAN 2 ELLIS

Return this slip with your reply.

5—1549

#### SMITHSONIAN INSTITUTION

Washington, D. C., 191

S. O. Verrer

Matronia
Sanitary Coffice

Heliconia inger & march B. Small poll took Himstidian black pyllow theren Un Known beetles, 2 speries 1 vaniegrikel elgha Clarid Weevils in upper
Red Coccinded Layer
Ataenius Léa yellow-spipul 11 red (gual) 11 ranigated elyta. Caphalos Cymnus Caso and (small) Hispids large speries me ormeders A Carge Species Small Slaterid deaf-hopper Storped dange pill box 11 pale roings Many Ceranby rids Zupler -Harge Hispids from Thorps.
Thischopteryx Red Hispid y from Palm Hispidurithard margin & leaves Cocrinelled 3-spotted bluish with yellow may Cocinelled small species

Belonushues

93.45 250 75.95 86.08 172 250 250

7540. 28

Green Hispa! Memordan Me clan Dry; d Tarleygours Elaton d Hyluph lus nematodes Eleveris Eum of and Petalicion. dampynod Mr. croley us vanous good Cyphound con wels Person Prelis (2 species) Sigdomainid Small Platand. Ay lop hiles ( clougate) Small Corriedlids Memosoma Ma stho des

Two led unions

Bupralids on same

plant with spilashoo

Bartwidi um

Europs from broker 1) Acortos was book Reddish near Syruphian in fungus Sphaphyoma in fungas Good from long keep Thorax ophorus whe bors I mall Conglished from been her 11 Errhommy & wow back [leury Black near Syraphain. 14 frages meer dispisors carder Good Cays Conorma from for sus Picsters with link n per Plenton a 4 Historidae u 4 All Hispaids except larger one (gellow elytra with black suture ) which occurred an busher on Haliconia near Beloncebus in Helitons Ечтина !

Hydra o cora

Phyrodomon on Solana work

Thing lang

Conotrasielus a or Barana lang

marila 1 march/ hians 1 Thank #1 Weerits Ceran byon Red Had Forish Curcyid - Gody lid 12:€0 Orthopares Temebolowich Sudow, y phid Macrashma Red Hipid from produ Chalvolas ?is Xylophilms Typhomid Scolytid near Phytocaria Unkagan Gram both Lage Conson. near Sanius Pfilodas/gla Small Andrid Black ish His piel Haltirid Lage Class Correllant Durk Hispal with reddish elstral margin (learn of Hebrowin) Chiloconid from reducte leaf Haldierd work med Theren Caralina



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## TIME TABLE

No. 8

In effect January 1, 1911

if possible.

Check your baggage not less than thirty minutes before schedule-leaving time of train.

No baggage allowance with commercial transportation, except hand baggage.

Passengers intending to embark on steamship lines at Colon or Balboa should deliver and check their baggage on the evening of the day previous to sailing, when possible.

Baggage should be plainly marked with the name of the owner and in care of the steamship line.

Parties having secured their tickets via the Panama Railroad Steamship Line can have their baggage checked through to New York.

Those not having through tickets and going via Panama Railroad Steamship Line, should have their baggage checked to dock No. 11, Cristobal.

Through passengers across the Isthmus, in either direction, must have their passage orders exchanged at the ticket office, and should have their baggage checked through to destination, or in care of their connecting line steamer.

Baggage received from ships, checked locally, as well as all hand baggage, is subject to customs in spection, and cannot be removed from the dock or rechecked until passed by the customs authorities.

Baggage transfer charges within the cities of Pan

SOUTHWARD						) III			NORTHWARD										
29	27	25	23	21	7	5	3	ily	STATIONS	2	4	6	8	20	22	24	26	28	*30
Pass Sunday Only	Pass Sunday Only	Pass Sunday Only	Pass Sunday Only	Pass Sunday Only	Pass Daily Ex. Sun.	Pass Daily Ex. Sun.	Pass Daily Ex. Sun.			Pass Daily Ex. Sun.	Pass Daily Ex. Sun.	Pass Daily Ex. Sun.	Pass Daily Ex. Sun.	Pass Sunday Only	Pass Sunday Only	Pass Sunday Only	Pass Sunday Only	Pass Sunday Only	Pass Sunday Only
P. M.	Р. М.	P. M.	A. M.	A. M.	Р. М.	A. M.	A. M.		Leave Arrive	A. M.	Р. М.	Р. М.	Р. М.	A. M.	P. M.	P. M.	P. M.	P. M.	P. M.
7.00 s 7.05 f 7.10 f 7.15 s 7.18 s 7.36 s 7.42 s 7.48	f 4.36	f 1.36 s 1.42		f 7.19 f 7.25	4.35 4.39 4.45 s 4.51 s 5.11 s 5.17 s 5.23 5.24	10.30 10.34 10.40 \$ 10.46 \$ 11.07 f 11.13 \$ 11.19 11.20	5.25 s 5.30 s 5.36 s 5.41 s 5.44 s 6.03 s 6.09 s 6.15 6.16	$\begin{array}{c} .00 \\ 1.77 \\ 4.37 \\ 5.94 \\ 6.79 \\ 15.26 \\ 18.51 \\ 21.37 \\ 21.61 \end{array}$	†COLON †Mt. Hope Cabin †Mindi New Gatun †Gatun. †Bohio Frijoles. †Tabernilla Cabin	s 8.30 s 8.24 s 8.19 s 8.17 s 7.58 s 7.52	s 12.04 12.02	f 2.59 f 2.53	7.30 7.24 s 7.17 s 6.56 s 6.50 s 6.44	f 8.35 s 8.30 s 8.27 s 8.08 s 8.02	12.00 s 11.56 11.50 s 11.44 s 11.25 s 11.19 s 11.13	3.00 s 2.56 2.50 s 2.44 s 2.25 s 2.19 s 2.13	6.00 s 5.56 5.50 s 5.44 s 5.25 s 5.19 s 5.13	9.00 s 8.56 8.50 s 8.44 s 8.25 s 8.19 s 8.13	f 11.31 f 11.26 s 11.24 f 11.05 s 10.59
f 7.59 s 8.04 s 8.09 s 8.14 s 8.20 s 8.25	f 4 59 s 5.04 s 5.09 s 5.14 s 5.20	f 1.59 s 2.04 s 2.09 s 2.14 s 2.20	s 11.04 s 11.09 s 11.14 s 11.20	f 7.42	s 5.45 s 5.49 s 5.55	11.22 s 11.23 f 11.29 s 11.36 s 11.41 s 11.45 s 11.51 s 11.56 P. M.	s 6.37	22.87 23.30 25.74 28.27 29.68 31.01 32.62 34.91	†Barbacoas Cabin †San Pablo †Mamei	s 7.42 f 7.36 s 7.29 s 7.24 s 7.20 s 7.14	P. M. 12.00 s 11.59 f 11.53 s 11.46 s 11.41 s 11.37 s 11.30 s 11.25	s 2.25 s 2.21	f 6.34 s 6.28 s 6.23 s 6.19 s 6.13	f 7.46 s 7.41 s 7.36 s 7.31 s 7.26	s 11.08 f 11.02 s 10.57 s 10.52 s 10.47 s 10.42 s 10.37	f 2:02 s 1.57 s 1.52 s 1.47	s 5.08 f 5.02 s 4.57 s 4.52 s 4.47 s 4.42 s 4.37	s 8.08 f 8.02 s 7.57 s 7.52 s 7.47 s 7.42 s 7.37	f 10.42 s 10.37
8.32 f 8.39 s 8.41 s 8.46 8.52	5.32 f 5.39 s 5.41 s 5.46 5.52 s 5.53 f 5.55 6.00	f 2.32 f 2.39 s 2.41 s 2.46 2.52 s 2.53 f 2.55 3.00	11.32 f 11.39 s 11.41 s 11.46 11.52 s 11.53 f 11.55 12.00	f 8.39 8.45	8 6.24 6.30 8 6.31 f 6.33 6,40	s 12.01 12.03 12.11 s 12.13 s 12.19 12.25 s 12 26 f 12.28 12.35	s 6.59 7.01 7.09 s 7.11 s 7.16 7.21 s 7.22 f 7.24 7.30	35.90 36.52 39.77 40.15 41.66 43.86 44.16 44.84 47.07	†Culebra †Summit Cabin †Paraiso Jct. †Pedro Miguel Miraflores †Corozal Jct. †Corozal Camp Diablo †PANAMA	s 7 04 7.01 6.52 s 6.50 s 6.45 6.39 s 6.38 s 6.35 6.30	s 11.20 11.17 11.09 s 11.05 s 11.00 10.54 s 10.53 f 10.50 10.45	s 2.04 2.00 1.52 s 1.50 s 1.45 1.39 s 1.38 f 1.35 ·1.30	s 5.50	7.13 f 7.05 s 7.03 s 6.58 6.53 s 6.52 f 6.49	s 10.32 10.30 f 10.22 s 10.19 s 10.14 10.09 s 10.07 f 10.04 10.00	s 1.32 1.30 f 1.22 s 1.19 s 1.14 1.09 s 1.07 f 1.04 1.00	s 4.32 4.30 f 4.22 s 4.19 s 4.14 4.09 s 4.07 f 4.04 4.00	s 7.32 7.30 f 7.22 s 7.19 s 7.14 7.09 s 7.07 f 7.04 7.00	s 10.12 10.10 f 10.02 s 9.59 f 9.54 9.49 s 9.47 f 9.44 9.40
20	P. M.	P. M.	P. M.	A. M.	P. M.	P. M.	A. M.	the arthreside Mare Dr. pero registry programmy and applica-	Arrive Leave	A. M.	A. M.	P. M.	P. M.	A. M.	A. M.	Р М.	P. M.	Р. М.	Р. М.
7.00	~ (	<i>A</i> ()	23	21	7	.5	3	+	†Telegraph Station F. Flag S. stop	2	4.	6	8	20	22	24	26	28	30

#### U. S. DEPARTMENT OF AGRICULTURE

BUREAU OF ENTOMOLOGY

AMAY 22 1913

RECE VOID

191

Respectfully referred to:

I.A. Sommara.

No. 42. Hour Parana Sity. Found also in other localities.

No. 43. Road to Corozal, C.Z.

No. 44. Slope of Amoon Hill, C.Z. on a plant of the comma arun.

No. 45. Teboja Island. Nov. 1910. Also in other localities!

No. 46. Lus Sabanas, C.Z. Aug. 1912. In dung.

No. 47. Lus Sabanas, C.Z. Aug. 1912. In dunn.

No. 48. Lus Sabanas, C.Z. Aug. 1912. On the ground.

No. 49. Taboga Island.

No. 50. Road to Corosal, C.Z. Sept.

No. 51. Rond to Corozal, C.Z.

No. 52. Road to Corozal. C.Z.

No. 53. Road to Corosal, C.Z. Return this slip with your reply. centol. 

March 9. Old Pto Belle

Paromalus? under bounk

Lispinan J

Cercyan in Arun flower, Diapsis also

Unknown Cryptophaged!

Examples Constelled Constelled Cistelid Cistelid

Mr. E. A. Schwarz February 24th House 52 Room 10 Jebr. 25 14 In fungues From old banana leaves 2 Treehus ( Cytus ( Groken) Hon; voeplake Historid 2 Lystaring Stiliropsis gyrophaena 2 Endongrid near Survius Osovius thow bank Colydidae 2: unber " probably a flist yearer (serique) Several Lispines At least two dae mophiseus 2 Salpingid (in merber) 1 Xoutholines A recon Homalata 1 Is they was 1. Cossouras

3 Forfioulds

1 selapted Ot idorphalus Beridisd- & Araria Temebroides Cassida-Convolvaly Carabid. Eleghid war Cert of old lig tree E Free Leefkoppe on Groadleans Solanum 2 Pletysoma ender old Fig bank 1 Endougelist 1 Kluz ophagus 1 Caphonid 1 Genes noar Telephany ( Syrophaena & black Aleochan

in blacking fungus

Buret forka

Carabidai

Acrik a number of

Tree-inhabiting species.

Agra only 2 species.

In wet places a Tarkys

a Bembidian and one or

two smalls Harpahid

Jecries. Unda bark

Tarkys is common.

Dytiscidae Only one specimen a Lacrophilus has been seen.

Some Philliporus and allied sparies, a Chaptarthia

Sphaevidis dae

Cerryon, probably sergal

3peries surotten and at

Ceast moist flowers and

i'm evel grant not rove.

Often Sphaevi Darty beforen,

ware

Prolaphidae

Ente specialus ore van Exempling Arthmices. The latter orcas wherea a moist place our be four Sey drugen; da

On the genus Perusievus horsely 2003 years has.

Scaphidi dae

One or two years of Toxidium

and possibly two speals spears

of Staphisoma. hone of the

earge spears seen

Phalacridae sures extremely administed.

Specimens of Sacient are plentiful also Corylaphus

Small species of Sigmous are plentiful; not know how many species represented.

several species. Caphaloscopulars extremely vare possebly 2 or 3 species. Chilocorus and Fresh. Some of genera peculiar to Central America occur but ever of the olay large species seen. One species occurs occurs occurs occurs of pilachua, probably to canoty of F. Corealis occurs sparingly. In the almost complete absence of Aphids and Coccids it is difficult to know what supply of food

the insertivorous portion of the insertivorous portion of this; fam; by has here. Leaf thopas about and colonies of you lavor are not difficult to find but I never saw a Cocinclaid lawa among them. On the other hand single Coccinclaid lava (a Psylloborid and Scymum) can be besten from various bushes an colisis we leaf-hopper colony can be the

Langueridae
medium syled apad small
species aspecially the genus
Grotchia extendy common
on green and dead bushes

Evoty lidae

Deny fen of the langer

genera sent as Megalodarna

of the Asmalles Triplaridae

a few species including two

low in colonier in form go

graving on logs.

Colydidae

Port more than 6 or 7 species
now in nembers. Bank collowing
excurringly rare in the 3 one.

Proof of the species found

are an imagen to interest

Lucujidas

A 1; my le Scalidia, 3 on 4

Laimophloises. Telephanes
very common but not many
speries mostly on dead. Banasa

Prava. A genus near Telephanes
clac not van a Banasa lasa

Silvanus several speries quite
common perfly unter bank. 8

miticles quite common an beaks.

Cryptophag, Las

on dead Bonnes Bonnes. Savaral
species allied to Phones on the
common in bourse

Parto Bello - Took the morning train from Parcisor to Colon, Hed to walk to Dock 13 but caught the "Porto Bello" which brought me to Porto Belle at 12.30. Busik wout to Panama with the neturn trip of the boat. Made a little exicers; on back of the old Fort but did not from much of consequence.

Tuesday, March 7, 194

Porto Bello. A. in went over to oca Porto Bello along The voad to Fotas West down into the hollow below the all camp and beat the bushes and sollarted under bank of the old tree below the trail. Went into the heavy timber above the clearing and best The buskes. Many new things were caught. The 'rail I took a possibly the old Colon trail. All Hispids taken to-day (except the very large moreulate ones which occur is Actionia) are from palms. On vines in the dark forest 2 specimens of a ! Salpingid. An un Known blue; it beetle (2 speriences) from bushes below the old camp, Under and within the bark of the log below the big fig tree a Scarabacid larva is common and since I found there are imago of Ataerices, the larvae may belong to this genus. The two small Diptera are from the rulled-up Heliconia

Porto Bells - Went again to Old Porto Bello to the cleaning above the comp on the Batim road. There was enuch vain to day and the felled trees did not produce much besides a number of Cerambycids. A Cycloryhala or Pelidnota appears to be common, 2 specimens in the flower sheet of - . A tolerably large fellow Chrysomelid with brownish stripes commences to be extremely common flying about at the edge of the cleaning, Collected a great many specimous among them 2 small Chings of which I do not know the families. A fine red Clevid with black humaned spot from dead brown, a red Ordinallia (hairy) from bush; a steel blue Cephaloscymous closely resombling that blue spiler, otto.

Thursday March 9, 1911.

Porto Bello. Ment a, in & Old Parto Bello on the Colon trail. Collected some time and prysa and some other larvai preserved, when bank of felled tree: Conventioned larva and some other larvai preserved. Took the butterfly net among the bow plants with good success. Heavy rain at about 10 och Want above the chearing into the woods and fourt by heating the west bushes and more especially the palm leaves some good things: two Cistelids, a big Colospis, a fine ween and has small very changate. I Cryptophagid. What a little farter up the road and found I hostylish and a large Cassila (8 g) on the plant. Torest of colors, of a Cassida larva on a plant resembling Caster oil plant and preserved some. The Arum plants commences to be in flowers: four yesterday two specimens of a Cyclosophala in the lower compariment. Some of the flowers have been eater into by some unknown animal, prossibly a cricket and

The wounded parts attract many Diptera including the genus Diopsis.

Turide I found a Cercyon and sow a little Steply Lived resulting

Evchownes.

An In John of more to men in finance to men

Friday March 10, 1911

Porto Bolto. — There was no rain to-day Went up to the 3th Spanish toot. The boality is not very favorable for collecting.

Still some new things occurred, In a soft white fungus for vather mushroom a number of Gyrophaena Capparently two species and Alcocharid near Houndota and some Ischyrus (another species was beater from a dead pale, leaf) occurred, Two specimens of a first Malthodes occurred singly, also two Eucusmider and some fine weevers including a large Ofichywhat Ret.

A veddish Endomythid, a small black bath, in known to me.

A blue Coccinollid (10,1h two demaded groto) is the enemy of the brown decarium that inferts one of the algorithme bushes on the campus. Its large looks very much like a Daitylopiers, Packed a Ligar bak of pill boxes for Sh Howard. Many that the box is packed a Ligar bak of pill boxes for Sh Howard.

Porto Bello - ho rain to-day, Ment on the Colon road at Old Porto Bello collected a little enrier horse dung (one day's old) finding about 10 speries (2 Staphylimids, 2 Cercyon, 1 Aphodicus, 1 Cepris, 1 Historial and 3 other Scarabasid) Collected a little with the butterfly net. Then went into the timber about The sold camp, Found town small Hispids quite new to me (one with blue elytra and red thorax, the other black; elytra ornamental with yellow)

There are guste a number of speries new to me beater from palm leaves and the low bushes at the place; Small Anobid near Caenovera, 3 species of Elaterids, a very clougate thing near Lylaphilas (2) atc. etc. Jound some more Cassidid larvae on the Castor ail plant. A Best from a palm leaf which had been presented from opening by a taugh of vines) the bright red Hispid with black thorax and what may be its larva In the campus at Porto Bells from again on Aga feeding on the Liguistrum Lecanium. Unquerousful attempt at convoliation with Bush.

Sun day, March 12, 1911

Porto Bello ho rain to -day. Repented the excussion of yesterday Beating the lower plants with the buttefly not produced some good things. A large banded Hispoid in valled-up leaf of Helicona with red stars. Another small ned dish species possibly from underside of theliconic loaces. On the cleaning a few Ceramby violate new to wee, a beautiful Cis; an Eleveric or allied geners on the old leaves of one of the felled trees. Saw one of the long-legged dyops obstitute flew away rapidly, just like many other five things that escaped our to-day. Among the wearist there is an Authorion in bester from bushes and apparently new to me. The large Chelon covirm occurs apparently very rarely on bushes in the doublest past of the finher. Mr. J. I Clevel and, One out a, h. y. Prof Heigo Knerschner, He Clear View, Hyattorile, Mod. Otto Wehner 3361, 18th st. new, Peroy W. Havenstein, Hyattorile, Mod. Otto Wehner 3361, 18th st. new, Peroy W. Havenstein, 367 So Station, Boston, Man; E. W. Wall, U.S. not Hus. W. R. Hobby, Paraiso

The strained alwardent of the frame to fine to fine

Monday, March 13th 1911

Porto Bello - Sent three parkages to Dr. Howard how 25, 26, 27, with list of outents. Packed my traps. no collecting, Heavy rain in early morning.

Tuesday, March 14th 1911

Parairo - Left Portu Bello at 1 p.m., reached Colon before 4 p.m.
Saw Mer Fichtig and bought photos. Took the 4.35 train
for Paraiso.

Widnesday march 15,194

Paraiso - Arranged my traps etc. in p. m. excursion to Hospital Hill ascending and descending by way of the ravine. Everything very dry. Collected in the few Heliconias and found a Hispid large way down near the root of the plant between the leaf sheets. Unfortunably I cut the larve to piecies. Found a very small Calandrid beatle corthing the dried up leaf stem of Holiconia. Collected on a dry, thin fungues on a dead tree a beautiful entirely black Anthorbid. It few Tembrions larvae within this fungues were cater up, by the house ants upon my return. A large Bruchus occarred on the screen in front of my room.

Thursday, March 16, 1911

Paraiso - Went out early is the enoring to the kill plantation and best the bushes among the rocks above him Werner's orchids. Found some good things: 3 specimen of a Tachygonus, I Chrysobothris, I Lylopkilus, a few small Anobiids, 2 fine Longicoons, a Chelcolepiclius (flyry in the sen) I Agra. As a whole the insect facuna is getting scarce, Collected also some

Took the noon vain for landing, been ted with Jesuings and Dr. Canfield and returned with the evening train to Pavairo

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A stander of more to man to man to man to man

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I Agra. As a whole the insect facus is getting scarce, Collected also some

Hirpids in emopened Heliconia leafes, and two species of Belowwhus is the water-bearing flowers for seed respected. I of the very tall Heliconia. Returned at 2 p.m. and shortly afterwards Mr. Jennings called and remained nearly cutil 5 orl. — Mailed parkage ho. 28 (devanious ingrum on Cape Jessamin brought me by Mr. W. R. Holby). Promised to send a Tool-Kit to Mr. H.W. Lewis who was Kind enough to fix the lock of my trunk.

Triday, March 17, 1911

Went to the valley below the cometany and found a mine of Coleaptera by scraping with my hands The underside of a prostrate log outo the umbrella. The most common species is a Sacium (perhaps several species) which occurs in enominous number of specimens. I thus collected upward of 17 species æriorg them 2 Colydids, I very small Scolytid, several Laensophloëns and a genus near by; Lathropus; a spotted Silvanus or allied genus, Rhinophloëns, Synchita, Litargus, genus up Salpingidas; These are all in a separate box ( The Authonorius, Calandord, Surjus the Stapleylined and the smaller Bactridium are from other bees . The top of the tree with the leaves still adhering furnity another Colydi'd (the genus with big eyes, emarginale hind margin of head; very active species moving about like a Clevid) some Lagochivus and an Aranhoderes look the noon train for Panama, General with Jennings and Dr. Canfield and returned with the evening train to Pavairo

A The man of more to man to the man to man to man to man

Paraiso - Want into the valley behind Hospital Hill and first best the bushes. Brownish Hispid from a taught of hut palm leaves. Tollowed the creek to the place when the felled tree are; collected a little under book (dasmophloseus!). Lost the steel from of the butterfly net! In p. ne. wount to book for the net but failed to find it. Best the young shoots growing on the tree stemps; found many good things but lost my best bottle!! Very large Scolyfid on growing vegetation but close to felled that tree. There are quite a number of small Buprestids out now. Took a fine Vylophilus and a beautiful very small weend, Almost lost my

Paraiso. Stood at home in a. m. waiting for Jennings and Dr. Canfield. Jennings came with the 11 o'cl. train and we want behind Hospital Hill where I showed him the collecting by scraping the underside of the felled log. In P.M. we went up to the Plantation when Im. Werner showed us his orchids and after things. Tid not collect anything, but from a few rother bananas and the rind of a papaga mad a trap

Manday, Marcik 20, 1911

Portdist . I. M. Went behind Hospital Hill and scraped the felled logs again, but this farma has become poor and I did not find anything new. Best some other dead branches and green shoots

with very emoderate success. It seems that late in the forenoon and in the larly afternoon inserts can not be found so readily than in the enorming and toward evening. P. Dr. Went up to Hill plantation, collected a little in the fruits of the broad leaved Heliconia and examined the first trap, finding a fine Opatrinus. Tound a made flower of Attalia palus, almost too far advanced for insert life but still many thousands of sperimens were among the poller leaded parts of the forms which together form a sticky wass: 3 species of Curculionido (among them a hanus and a very immature form which may be a 1th species), I Carcinops, I Omalicum, I (or more) Medon, several Homoletas, I Surveys, I (or two) Erchouses, I Orthoperus (very ran) I pale testidulid looking like an Epuraea, I Xauthoppyees Took some of the material home.

Tuesday, March 20, 1911

Pavaiso. Went to Panama and saw Dr. Canfill and Jennings. Went to see Col. Gosgas but saw only Col. Philipps coke promised to let Jennings join us. Jennings and myself returned to Earasso with the 10.45 train and in the p. m. we went up to the Still plantation when I showed Jennings be made of collecting among the Altalea Covers. Towned a fine weent in the fruit trap also an Omalium, a Carcyon, an Epewaia and a black Colastus. Preceived initation from the Chas P. Crafts, House 30 Covoyal to visit him tomorrow.

Wednesday, March 22, 1911

A- - -

Parairo. Took the envou train for Corozal where I met Jeining and Mr. Chan. ? Crafts. We went on the road toward Mirafton, out it we crossed the Cardenas River where we did some collecting. The shrubbery along the river is comparatively poor in wests and the whole region booky transped by cattle. Preturned to Parairo at 6 p. mi.

The large Bruches was quete abundant this morning on the inside of the screen at the hospital. This Brushus comes from big Acacia pod from Old Parama).

Theory day, March 23, 1911

An In James of the formation of the form

Paraise Took the woon tray with Mr. Jennings, to Matachin Dr. & Mars. Confield going along as for as Empire) took lund, with Mr. & Mrs. Aubrey and went along the Las Greyes trail as for as the first creck which was nearly dried up. We frished at two places: the farma was very poor: I found a Dylise of probably a desceptibles and Jenning a Bidesses or so. Three or four Hydrophilido (some of them very wild flying). It very small Elaterial (2 specimens) were among the west stuff and Jennings took a Bembideen. On our return went through the rubber plantation. Met Busak on the train on his return from Porto Bello, he reported Colon to be afire.

Friday, March 24, 1911

Paraise: Parkod 4 packages has lot 32 and marked & In Howard, in the forevore, Jennings came out with the 150 train and brought a rewspaper man along (Mr. Buller (?) from the "Outlook"). There was of

course hardly any collecting. We went to look at the Senitation work

Behind Hospital Hill and then to the Hill plantation. I looked into the

Attalia flowers and four that none of the bigger weevils come present

but the senally species seemed to be just as numerous as before.

medium-sign Tembriound

These was also a Heilipus and and Alexandras in the causty, no doubt

accidentally. Isolad at the fruit trap i a considerable sumber of the

common Rhodolaenus, Colasters and other hitidalides, Little Staphylipidae

and two specimens of a rise "Belomethur. Serious break with Busak.

Discovered that the large Bruchus on the wire screen before over room really same from the big Acaria pods collected at over Old Panama trip, Tourid an Alexerodes, l. p. and i, on a vine near Wiener's orchids, Saturday March 25, 1911.

Paraiso: Mailed pockages 33 and 34 to Dr. Howard, Sueval orecharly of vials of on the table: Journing not bearing made his appearance of went about to Trijekes with the 11 a. m. Trais. Tollowed the connecting railroad track for about If of a mile then took as, old trail but the bushes. A yellow Halkirid was quite abundant here or various bushes. The brush is a wildowns of the Biant Heliconia and by beating the frustrasses of found quite a number of Coloptina in Them. They are as follows: Daille Daety bestornum you quite common, Coregon sp., quite common, Belonushus medon sp., rane
16, not wave in Erchonnes sp. not raise and a single Hololopta. Beating the bushes and twithet produced not many but some good things notably a Relaghid resembling an Edaphus, a fine brownish Tenebriound (1) quite custom to ine, a very clousate Cryptophagid, a Jogopit, Constradalus, two Cossociels ato.

A male flower of the Panama hat palm produced nothing but had attracted a large number of Melipones. On a flat feegus (orange-word colon fish) an Evolytid and several specimens of Arrhenophita and two minute Gyrophaena

An I for many of the proof of more to many

Sunday, March 26, 1911 Paraiso. Went to Panang with the 8.25 frain to get a good breakfast but returned with the 10 o'd train. Went at once into valley behind stospital Attle and looked at the of flower bunch of an Attalea palm which had opened for was out open by somebody) two days ago; the flowers represent an extremely sticky substance with no trace of pollers; the smaller Attalea inserts were (three is norribly another small nitibalish allied to Encurain)
there but in much smaller number; no trace of the big yellow weevel, Beat a little the green vegetation and found on the underside of very young Spinous Palm a small blush Hispid (3 or 4 sperimens), quite new to me also a reddish Hispid which may be or not new to me. Found a fine Cryptorhynchid on a branch of a felled tree. In p.m. went up to the Nill plantation but did not see her. Womer. In Cooking at the old Attalea flower builty I noticed that most insects have disappeared still many of the small everils are present; I found also a second sperimen of the Cistelial like Tenebriound. Whate beating that old & next mass of the hut Palm I found a sperimen of Megalops and two of that great Caryoborus In beating the green shrubbery at the edge of the cleared spaces I found a fine 3990pid. The underside of the hut palm leaves furnished a specience of Inota and on of that brown Hispid. Collected some nods to be sent to Warlington and in one of them;

a very large vine with bluish flowers I found one specimen of a beautiful Brushus (this has been sent to Washington in the box containing unspend pods of the same vine). — P.S. There may be two species among the small Hispids from the Spinous palm, The ved Hispid from same plant may be different from those Gving on Helsconia.

Paraiso Went with Pan Jennings with the 11 oct train to tripides but the expedition proved to be a farler from the start, Jennings losing his collecting forceps, and in spite of more than one hours search we farled to find it. Deat the fraits of the Giant Heliconia, lost a little Historia, but collected a few specimens of the Hunister four way these circumstances. Beat a little the water bearing fruit of the otherwood unthe bright orange colored fruit) and full that the favore does not differ from that of the Giant Heliconia. In one of the more meature fruit which carries less water I fout a much of Trickopteys and some small Stophylimidae. A little direct up creek along the ranknood looked like a good collecting grows but I four only a solitory specimen of a Chartorithia.

Paraiso - Jennings came out with the Hoch train and we were into the valley behind Hospital Hill. For the first time Jennings did his own.

collecting using the butterfly not and a heating stick. We beat the small green bushes, the young growth on the old strumps and the deed branches. I found serving the Hispids on the undwinder of leaves of young spinous Valous; they do not in

to occur on the older trees. There are certainly two species among them. Tout a fine Ptimus and an Agrilus on dead branches. Some little Scolytids make now their appearance but where they breed has not been ascertained. The genes Hypothenemas gets also quite comments, jerring, caught on my coat a beetle which probably was something may good; it must be in his collectings.

Wednesday Marih 29th, 1911

Paraiso - Jennings & myself went with the 11 och train to San Pablo and colleged at the banks of the Chagres. The bed of the viver is live flat with broad sand and gravel banks. The sand, when wet is like a very fire gellow mud, when dry it is extrancly fine hot many sticks and trustes are on the banks. The facing does not differ essentially from soundar localities in the States, there are no Beautidius no Platynus, no blydrophilids etc. in fact the fauna is comparatively poor but this may be the fault of this particular locality and perhaps owny to the fact that the River is muddy the mud being thrown into it by the Carral people. Moreover there is not a bit of shade at this place and collecting has To be done in the glan of the sunshine. We collected 22 species of Coleophia æs follows i Tetracha carolina (under caked mud 2 specimen), (icindela sp. Chisina sp. [1 spec with Jennings] Cliving 1p. I spec, Taches sp. tericompsus sp. Tachypus (?) one speciment with feminings, Agonodorus of [ 1 specif; Oodes is and Anchonoderus sp. [both very comman in very wet ground] Actobrius sp. (15p.); Kantholines y. (13per under Tried cow dung on dry sand) Stends sy (1specimen) Stences sp., Cryptobium ip., Cryptobium ip., dathrobium ip. (Isperimen) : Scopatus sp., Parmus sp. (exceedingly common even under drier stick; est Ataenius sp.; Pyropyga sp. (not rare crawling about in the shade of the pebbles); Authoris

Sp. (once specimen with Kantholinus). Were invited by Mr. Pickle the Sanitary Juspedor to call again. Took the afternoon train to Colon, looked at the Causilies for Toro Point and returned to Parceiro with the evening train.

Thursday, March 30, 1911

Paraiso - Jermings came out with the noon train and we want into the valley behind Hospital hill beating the young growth, on the stumps. Various good things were found. Jennings found a red Hispid which I did not find before. It is no doubt a palm inhabiting species. He got also some other good things

Friday March 3/ 1911

Paraiso Execusion to Toro Point with Jennings who took two Chryondies, which I did not take [hoda and genus like Metashrowa]

Saturday April 1st 1911

Mr J. D. Cristopherson called in the morning and brought low Otiorhynchids of from Met Hope. I gave him quite a lengthy lesson on Entomology. Went to Panama with the noon train and returned in the evening. No collecting to-day

Sunday, April 2, 1911

Paraiso: femings not coming out to-day I went alone in a. m. into
the walky behind Hospital hell; my principal object being to find the Hisrid
which femings four them on March 13. But I uttaly failed though beating
a great variety of plants. I four however, various acceptable things notably
a fine Hyperaspis; 3 species of leaf-neining Buggestide etc. A large
(etomical come flying on my cloth. In p. no. went up to the Hill plantaly
saw Mr Women for an instant who told me that the name of the Scale-infection

Orched is Maxillaria. Looked a little in the fruit of the broad-blawed Adisonia and in the trunks of the folled trees which the retain their moisture and have put out fresh shoots. Here I found a small Histerial and one specimen of - Tound a Seymous feeding on the Alegrodes of which I sent specimens to W. Beat the green bushes etc. on the slope of the hill. Looked at the old Attalea flowers: the small weekend is still there but can now be found on mango trees and elsewhen. On the mangoes I found a series of an Anobird, the specimens being mostly in copulation, Jound two specimens of a Bruches on a tree (probably a cultivated and) - one escaped

Parairo: Jennings telephoned that he could not come out to day so I want at cool up to Plantation. There was a little rain this morning but the air was very heavy. Did not find must by beate the bushes on to hill: a fine Thinus dark a Pachyriclus and a fine blue Cephalory mus, with gellow legs. I flow very small Alcochamity in the folds of a your lanama palm leaf; dooked at the pile of old Attalea of flowers and found laws and pups of the small weed, also plently of images of same, all immation. Her found two carrivorous Coleopt lawae, possibly those of Modon among the flower stems. Collected a box of the spinous fruit (having not teads) from the tree near the heat Collected also some of the large pods of the big vine and found a couple of the Breedees in them. May let by the observer of the way to the partiages 39, 46, 41 m Mr. Jennings went to Laten to-day and collected a

number of insects including a Throsous and a Sigrtes

Tuesday April 4ª 1911

Paraiso. - Took the 7 o'cl. to Culebra and spent the forenoon with Pittier and Maxfor Retained with the noon train just in time to escape a big vain shower. Mr. Jennings came out with the 2 o'cl train and we went over his collecting from yesterday, at Geten. During this business another raise sturms occurred.

No collecting to-day.

Wednesday, April 5, 1911

Parairo. Took The 7 och frain to Panama to give Goodby to Don
Canfield and came out again with the 11 och train. Heavy rain from
I to 2 och Went out behind Hospital Hill but was caught by
another shower. Scraped the underside of the prostrate log, where a
small, smooth Aleochand (somewhat allied to Pricrowna) occurred in some
runber; the top ends of this log furnished a number of the "4-spothed Towarms"
Thursday, April 6 12 1911

Pavaiso. - Went and at 7 och an to Per Hill Mantation Encything wett from yesterday's rain but the vegetation is somewhat revived. Jour out of that entirely red Histord which Jenning, took the other day but on what is cutainly not its food-plants. Beat the bushes behind and above Winner's house: ITachygonus, I Cephalosymunces (blue with a soft on each elytron) & Alaccharid in mosst surface of cut tree; 3 species of Brushees (one from spinous reads sout to W.), I Pselaphid (or Staphylinid) I Curculioned was Piagurus

Paraiso. Went with Jennings with morning train to Bohio, exerted the Chagres and looked carefully on the leaves of water liber in the date. he troce of Donacia to be seen, only a rather sment brownish fly. The shrubbay along the date does not seem to hador smany insets: a larger handsome Halticids was not rare. Under the moist debris to is quite a distinct faces: 2 sphaindally Caralids, sweel Pselaphids a Seydonacum and an Antherens. Met Dr. Meek on the depot (also Col. Gaellard & the Loke) and went with him to Gatum, when we met Goldman. Took lunch at the Commission Hotel and wint to the first timber along the Color track. These woods are quite different from these near Paraiso; a next benteding and fresh very much like that of Entermoof is extremely troublesome. Takes also different in many verpets but radically different from their also Bello This piece of himber is quite low and probably quate in possible deving the vaing season. Jennings used his not as a Grating seet on the swar yet open place.

The state of the s

## Saturday April 8, 1911

Parairo. Went with Jennings with the noon train again to the Lake at Bolio and sifted the wet leaves but it rained heavily the whole afternoon which greatly interfered with collected. Then was a little shelter beneath the corrugated iron roof of the hydrographic wheel. Tished a little in the lake but there is hardly any aquatic insect frima. Took a satisful of wet stuff home.

Sunday, April 9, 1911

Paraiso - Went to Parama with the 828 am. train to have a good breakfust and returned with the Oo'd train, Sifted the Dark of wet leaves I brought gestuday from Bohov. There were not many specimens in the material but several additional species notably a small Dytissid. In p. m., went up to Mr. Werner's plantation and talked with him an various subjects, but did no collecting.

Monday April 10,1911

Paraiso - Parked three parkages, 12, 48, 44 for In Howard. Jamies came out with with the 11 am, train and we went behind to the valley behind Hospital Hill, Jourd on dead branch, as now a forma beneath the ald leaves and found that there was now a forma beneath the ald leaves and found there a fire by Beleghood and sweeth the ald leaves and found there a fire by Beleghood and sweeth Stappy finder which seem to be good. Tound two specimens of a small Dominested on the screens within our house

Luesday, April 11, 1911

Paraiso. - Went alone up the Ravine from Cemetary when I have not been since several weeks. - Sifted one the sack of wet leaves I carried back from Boh's and found a number of specimens, including a Staphylind altied to Hypoteles. Investigated my old hay trap and found some delicate Pselaphila. hear the top of the navine investigated rotten log with fungus growing on it. A lot of Gyrophaenids, 2 Scaphisoma, I very small brown Curvuliveid!! I Getraumus, I Entomythed, I large red Evolvid - all an this log. - My p.m. excursion into the valley behind the Hospital Hill was sported by a heavy vain. On looking

on the leaves of the shrubbery I collected 3 species of Chalepins and one rether large Chlamys. Attempt to sieve interrupted by the heavy shower.

Tried to collect under bank of the prostrate log; a Cossonus, abundant; 2 Paromalus and one Staphylinich. One small Brushus from the wet shrubs

An the property of the party of

Parasso Worst to Panama with morning train and with Jentings in the salurds was explan by him where a new road had be closed through the law shouldery. Aside of a black Constrachelies only the wind found out of the or a tree which was badly injured by fire and exe many good things were found and at the end I call out from a treing a big styleborus only one strought hade, tung only about had an inch in thickness. Some other good things were found and or things only about frees and Jentins with his buttiffy the net got some additional species [ Among the species found by me: Colydia, Laternophloeus, Caphalise, many

## Thursday, April 13, 1961

Parceise - Went again to Panama and with Justins went down the R. R. track a short distance where we crowled through the fence into a djungle close to a bad-smelling ditch. I did not find and very much; a fine Anthonomus, a brownish Aprion, a fine Cryptorhymikid cla bul Jermings 907 quite a number of good things especially Rhymihophora.

Friday April 14, 1911

Paraiso - This day being holday - Good tricky - I went alone along the Rebocated P. R. R. track as far as the large Creek that crosses the R. R. beneath a gigantic trestle, dooked a little wider booth of a Cerba bree cut by the R. R. operation then went down to the creek and sifted the west leaves along the stream. Tisked sometime with water not in the creek and got 2 specimens of a result Dylisord. Remossing the trafte found a dead tree, out and burned but with leaves still adhering and best a lot of five things from it. A little-town that we creek found another cut tree and from the undersol of the truck scraped a typhologies and a fine dongicom near Elaphopolom. There was no rain to-day but the sky was cloudy the whole day

Saturday, April 15, 1911

Formal Went with the early train to Panama whose I ned Man Jennings. Hived hask and went to the "Bathing Beach", about one wile down the coast. There is a Girindela on the beach and Jennings also can just that Anthorno [ I have not seen the specimen] we found at Tore Point. I found a Epitragus and an Allarde on the trees overhanging the beach. This tree bears an apple-like fruit maked in infestal by an insect which may be a Coleapse or Dister. There is a hedge from near the beach to the Salams road and along it we found many things which are new to our list. Jennings with his brotherfy next was puste affective but I didnot see everything he wollasted.

Junday, April 16,1911 Paraso - may left ege besig somewhat suflamed a Kent indoors except that I went down to langua to have some

fresh eggs for breakfast. It was raining nearly the whole day

he collecting to-day Monday, April 173 Paraiso - met Jennings at the morning train at Pedre Megail and with Mr. Grafts we went up the valley of the Yedro Migael Prous crossing and necrossing the net until we came above the Kerosened zone, halling seem to occur enter the stones celong the creek although the consistions appear to be ideal for Carabidie Staply lividae etc. The valley is well cultivated as far as this terms applies for Panamanian circumstances and the strubbery along the irech does not fernish any pendier insect fauna. A Dornærid on a flowering should and a Pselaphid under back of a big tree are about all worth mentioning from But trop. We walked book to Parciso and went to It ill plantation where we found on other It flower of Attalea palm apparently just opened. The car was just within our reach by mean of a long stick and proof to be inhabited by a courtless number of Mitidulid beelles (allied to Enceração). There are expanently two species among lem. A species of Cyclorephala was also common away the flowers and there evere The 3 species of Curiulionids, The Smirings out the Oundian and the Clark Henrigher. Went into The woods back of Wowers house aw for 3 good Elaterids and a small Clevel among flat fungees on underriche of log

[ hesday, April 18, 1911

Paraiso - Went to the valley behand Hospital hile. hot many things to be found in beating the bushes, but get some good things under the bank of a recently out branch of an unknown tree, including some Scalefieds. The ends of the old log fruithed an Autonium, Went to l'anama for dinner and no colletty in afternoon

Wednesday, April 19, 1911

Paraiso - Went early up to Itill plantation to look at the Attalea, flowers. They have been fulling to the grow which is now fairly consess with them, Beating the remarkets I got a good set of the big yellow Gereuliand, the Historial had made its appearance; in fact the flowers represented the same state of development, as when Jennings and myself for the first ear of Attales flevers. Went into the woods back Worner's house but lost my time in trying to find the log with the fungi I had piled up on April 173.

Thursday, April 20 th, 1911

Paraiso - West over to Celebra to arrange home transportation court to dinner to lanance; vais is afforced. he collecting.

Triday April 215, 1861

Went over to Colon to confer with ticket agent P.R.B. S. C. met Busck on Frein cowing back. In p. w. went to the top of Hospital hell where The trees book green again and four many good things. It seems that various inserts have made their expenses in spite of the fact that rains Frank been scanly

Saturday, April 22 mg, 1911

Parciso - Went early in the morning again to the top of Hospital Hill and found a lot of good insects by beating the bushes, It is a hity that I can not ascertainthe food plant of the Breeche. Went to dinno to Parama and Jenkins came out to Parama in the afternoon

were as extracted attacking in the same to make the make

Sunday April 23 w 1941

Parciso - Went to Panama with first Train, met Justius and we went out to the lines of wood trees back of the Balling Beart. For a number of species new to list. A very put the end to our excursion

monday, April 24, 1911

Paraiso. Went early in the money to the top of Hospital hill and bret the bushes. The facure seems to be a little exhausted but a number of a new species core for. The food habits of the various species of Brushes can not be ascardered. At nown went to Panama for dinner and upon return attends to Roundry matter,

Tuesday April 25, 1911

Paraiso - Very heavy vain deving the night and everything wet in the morning. Went and to out some sertion of the large brown of Ficus (?) lying on the grown stress 3 or 4 weeks. Found without the back a fine date in applicates and on its enterior and Endoughed. There are not least 2 species of Scalytishs under the last but appearently no inside boness. Went to that old prostrate by and found one dead hematidium as 2 specimens force dead of Automium as two specimens of a reddish species appearently

allied to Palorus; also an Acritus. Went for dinne to Panania. Ving heavy and continuous rain in p. on.

Wednesday, April 26,1911

Paraiso. Raise is the right and everything wet again. What a m on top of Hospital Hill and beat the cut bushes with some difficulty, but four a let of good things. The facuna has manifestly changed. various species formally not present can be found now, but handly any of the species to be found in January and Fabruary have made their reappearance. Went to Panama for driver, he p, on went in the valley along the relocation below the countary but did not find anything of consequence

Theoroday, April 27, 1961

Paraiso - Very saltry and heavy shower lasting centil after 12 och. Took the noon train to Panama where there was no rain and walked out to the swampy pasture leading toward the Bathing Beach. Joint seceral good things on the very low bushes but lost a Stewispa. Large Heltivids are here common, but exceedingly difficult to capture. Walked to towar again and went to Mr. Jennings and at about 8 och looked at the electric lights on the streets of Acron. This elphs are high about the grown but we took 2 species of Lacknosterna one or two of "Chalepus, and Philly ones, one or two species of small Hydrops which, Justicies floralis In addition there are in Jenning's caus a g Megasoma algebras, a Mallulon and a Phileuries. I'd not see his small things. There was a great fight of Photheris powers flower on the lawns of around the Tivoli

Friday April 28,1911

Paraiso - Returned from Panama with the early morning train and attended to the specimens found yesterday but felt very sleepy, In P.M. went to the top of Hospital hill and found various good things by beating the bushes (Phytonomus, Laemoseecus, a beautiful Copptorhynchid, Symphora, Xantholinus etc.) and discovered that a fewna is now to be found under the old leaves. Many tricks on my body from yesterday's excersion.

P. S. There should be added that very early yesterday morning I found some good things (a Galereedla cto.) on the wet bourana leaves nearly beneath the cleatric light book of the Commissary

Saturday, April 29, 1911

Paraiso. A.m. went on Hooped Hill plantation G'iridal a ser bushes
Many other good things, new to the farma on the scarty bushes above
Werner's house. Sifted the accountated old Attalea flowers. Prevished the
old out-down trees with moist back

Sunday April 30, 1911

Revais o A.m. Went to Hill plentation, beat the old envelope of Attalia flower war and got a number of the small Caland rist, two or three species of Cryptophagids, a large number of the large Caryoborus cont a single Cistelial.

About Worm's house beating the bushes I got various new species. Caught a Meloid on the screens in the early morney. All Baridiids on a flowering shows

Valleys do sound in the same state

, Pareiso, in tent at night

Printed the second of the second of

n 74 race

May 7 4 1911

horth slope of Hospital Hill.

May 10,1911 (2 bone. Woods above Hill plantation

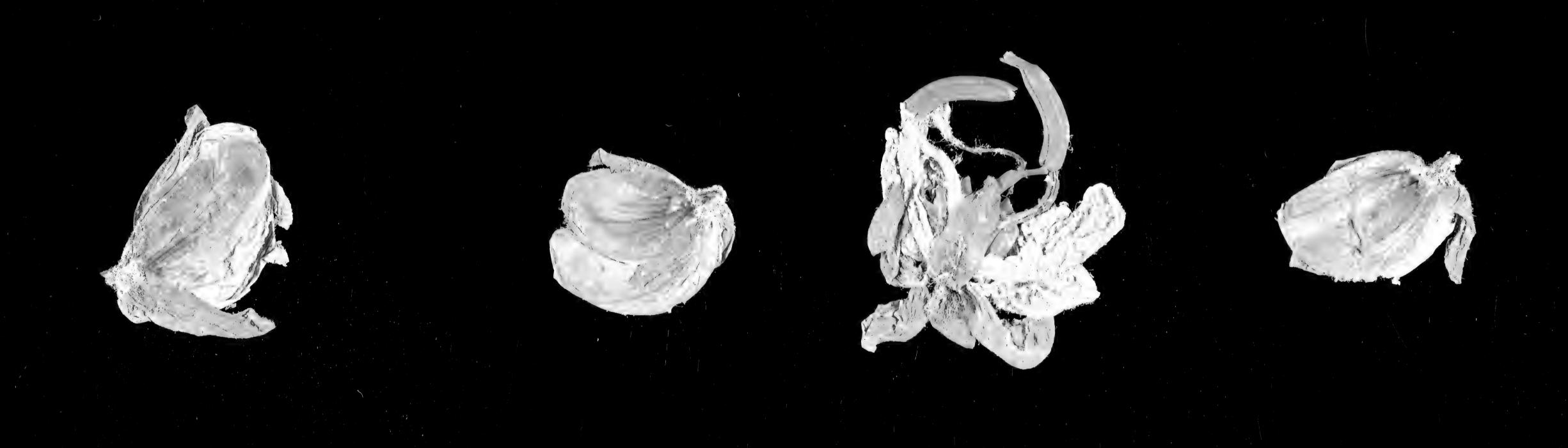
List of Panama Coleoptera collected by Aug. Burck, E. A Schwarz etc. Attelabidai

28

Attelabus sedatus Shp. Cabima May 22, "11, B. Ispec.
" corvinus Gyll Paraisa Febr. 8, 11. S. 1spec. Trinidad Riv.
May 6, "11, B. one specimen.

Rhywhitidas

Euguamptus n. sp. (parenthesis Sz.) Parairo, April 22, 11 2 specimos. S., April 24, 1 spec., S., April 26, 2 spec., S., April 28, 2 spec., S., May 3, 1 spec., S., Taboga Ind., June 11, 1 spec., B. - 9 spec. in all. Euguamptus n. sp. Parairo, Jan. 17, 1 spec. S., April 29, 8 spec., S., May 6, 1 spec., S. Porto Bello, May 13, 1 spec. B.



List of Panama Coleoptera collected by Aug. Burck, E. A Schwarz etc. Attelabidai

Attelabus sedatus Shp. Cabiuna, May 22, 11, B. Ispec.
" corvinus Gyll Paraiso, Febr. 8, 11. S. 15pec. Trinidad Riv.

28

May 6,71, B. oue sperimen.

Rhywhitidae

Eugnamptus n. sp. (parenthesis Sz.) Parairo, April 22, 11 2 specimes. S. April 24, 1 spec. S., April 26, 2 spec., S. April 28, 2 spec., S., May 3, 1 spec., S., Taboga Ind., June 11, 1 spec., B. - 9 spec. in all. Eugnamptus n. sp. Parairo, Jun. 17, 1 spec. S., April 29, 8 spec., S., May 6, 1 spec., S. Porto Bello, May 13, 1 spec. B.

Washington, D. C.,

28 Large Hispid and its probable larva in unoponed leaf of broad a leaved Helirouia.

29 Scarabasid and other larvae from under hard of Lead big (on the point of the principale).

30. Larva und skin of small Epilarhua (sue imago sin pill boxes e on bean-like vine 30 4 917 Jungo and paper skin of small Epilachua. Dry will. Sac Is. 30 231 Elaterid larvac very coloundant in the with book of trees

write to. 49 Old Porto Bello

32. Elatered lana under leaf base of Cocoanut tree (on the point of the pouriesula

33 Encinemed larva in bank of felled tree (same Tree with hos 21 and 22

332 Pill bak with pupa skin and imago of Eurnemid, Page four at exactly the same place with his. 33

34. Lampyrid Carvae and probably imago water votten back of log. Paraiso.

35 Cicindeled larva in Lead branch of a tree comong ants

36 Large Cassidid Carvae (our volong) font en plant 36, Colon trail diving lawar still in very possession 37 Un trom Coccinellid for anolus waly on the interview of Adironia leaves

and possible your larva

Washington, D. C.,

28 Large Hispid and its probable larva in

unoponed leaf of broad - leaved Itelirousa.

Lead big for the point of the primingula).

30. Larva on & skin of small Epilarkena (see image and dry viel

so a griffingo and pape skin of small Epilachia. Dry vial. Sac 26. 30

31 Elaterid larva, very aboundant in turner book of trees

constate to to Old Porto Bollo

32. Slatered land under leaf base of Coronaut the Con the point of the paris ula

33. Eurnemed larva in back of fellest tree (same Tree with

332 Pill lax unt pupa skin and imago of Eurement, Papa four out traitly the same place with ho. 33

134. Lampyrid larvae and probably image unter votte back of log. Paraiso.

35 Cicindeled Corva in Lead brauch of a tree comong ants

36 Large Cassidid Carvae (our ordong) font en plant 36, Colon trail diving lawar still in my possession

37 Un trom Coccinellid for a exclusional on the entered of Aldronia leave

## SMITHSONIAN INSTITUTION

Washington, D. C., 1911
Copy of Confut of Box 25 Sent to Dr. Howard
March 14,1911

No. 28. Imago and possible lerve of Hispid on palm (name not accordain 1). The larve occumed in an unopent lig which was enteringled in a vine

21 Conventioned larvae in (probably Jyopid) in back of a felled true.
212 22 Same as no. 21 but from another bog.

felled tree (same tree as 21). Two vials, sperimens collections
at different dates but in some log

23 Azya, ets larva and its food (Linamium on Ligustrum, See also specimen in poll box

24 Lyrid larva bedan from bush in dark timber

25. Coccinallid Carry occurring not rarely on trees behind all

26. Men; cellamences, Spedens, Shally etc. Porto Bello 27 Samples of the ticks from Paraiso. The fed specimen from my own person.





Expenses to January 3/51, 1911 1, F.1 1 S. hs. to. . . Processo 200 \$ 86,08 2.00 25 50 5.75 00 . 25 1.00 2.00 2.00 2.00

unundy

7.00

2.00

## Copy of Krit of Contents of Box 15. Sext Feb. 12, 1911

1. A few aguatic inserts. Paraiso, Jan. 16, 1911

2 darvae

2 Tupae

3 darvae

3 darvae

4 darvae

4 darvae

5 darvae

6 darvae

6 darvae

6 darvae

7 darvae

6 darvae

7 darvae

6 darvae

6 darvae

7 darvae

6 darvae

7 darva

11. Dry vial. Leaf of a surrous Solanum with remous egg-enasses of a (3) Leaf-hopper. hothing bred from them. Seem to be pararitized.

Febr. 12th Substitute Pavario 2 00

Febr. 13 Scalswithen Pavario 2 00

Fee to kouse revocate 2 50

for one wouth 3 50

Febr. 14 Fee to paper of helly 20

Substitute Paraso and 200

Parto Bello

Boat kire Par Molh. 50

Jan 86,08

Febr 74

15.8

160

45

40

2.45

188

3.93

485

•

2.00

Expenses to January 3/57, 1911 \$ 86,08 Subsistence, Paraiso, ... 2 00 2.00 2 Subsistence Matachin Johas Cruery 2, 25 Boat here Matarkin to Allajuela fret. 3.50 5.75 3. Subsistence Paraiso 2.00 2.00 4. Subsistance Paraiss and Panang 2.25 Laudry 1.00 3.25 5. Subsistence, Paraiso 2.00 6 Subsisbenie, Parasso 2.00 2.00 4 7 Subsistence Paraiso and Bohio 2.00 2.00 2.00 2.00 2.00 " 18 Subsistence Culebra and Paraiso 2.00 200

# 11. Subsistance Parario

	1.	0.2800
Febr. 12 Sabsistènce, Paraiso	2.00	
		2.00
11 13 Subsistence, Parass	2.00	
Fee to 3 house servous	3.50	
*		5.50
1. 14. Baggage at Port Hope	20	
Subjetence Parano and Port Bella	2.00	
Boat hire	50	
(7 +5.	7. 70	2.70
11 15 Subsistence Porto Bello	2.00	
		2.60
" 16 Subsistence, Porto Bello	2.00	
Boot hive	50	
	2.50	2.50
117 Subsistence, Porto Bello	1.00	
	2.00	2 00
11 18 Subsistence, Porto Bello	2.00	J. 6
Laundry	1.60	
	300	3.00
119. Subsistence, Porto Bello	2.00	
	2.00	2.00
1 20 Subsistence, Porte Belle	2.00	
Boat hive	50	
	2,50	2.50

	62 tr. 52.20
Feb. 21 - Subsistence Porto Bello 1 2.00	
Boat lere 30	I
4. 75	
Feb. 22 - Subs: I few Colon and Panama 2,50 Carriage, Panama 50	(
3.00	
Feb. 23 - Subsidence Paraiso and Porto Bello 2.00	3.00
Carriage, Colon	-7
2.50	2.50
Feb. 24 - Subsistence, Porto Bello 2.00	Ber (ye)
	2.00
Fob. 25 - Salssistan Parto Belle 2.00	2.00
Feb. 26 - Subsistence, Port Bello 2.00	
Act to the second	
2.50	2.50
Feb. 27 Subsistence, Porte Bolle 2.00	
Loundry 206	
Fab. 28 Subsistence Porto Bello 2.00	4.00
Boat Rice	4
2.50.	2.50
Total in February of	7600
11. " January	86 08

		tr. 162.08
Marsh 1 Subsistance Porto, Bello	2.00	
	50	
March 2 Subsistence Porto Bello & Paraiso	2.50	2.50
	2.00	2.00
March 3. Subsistence Culebra, Panama, Paraiso	2.50	
March 4. Subsistence Paraiso	2,00	2.50
	200	2.00
March & Subsistence Paraiso	2.00	
	2.00	2.00
March 6 Subsistence Paraiso & Porto Bello.	2.00	
	8.00	2.00
March 7 Subsistence Parto Bello	2.00	
Boat hive	2.50	
	2.50	2.38
March 8 Subsistence Porto Bello	2.00	
Boat hire	50	
	2.50	2.50
March 9. Subsigture Porto Bello	2.00	
Boat hire	80	
	2. 50	2, 50
March 10. Subsistence Porto Belle		
		2. 00
March 11 Seebs, Hence Ports Bello Boothine	2.00	
Boat line	2.00	2.50 425

		63 tv. 187.08
Murch 12 Subsisferye Porto Bello	2.00	29 41
Boat hire	2.50	2.50
March 13 Subsistance Porto Bello	2.00	
Fee to house servant	3 300	Res. or
March 14 Subsistant Porta Bello, Clan, Parario	2.00	
Carriage Polon	2.40	2.40
March 15 Subsistence Parasso	2.00	2.00
March 16 Subsistence Paraiso	2.00	2 00
March 17 Substitute Parairo & Parama	2.00	2.00
Laundry	3.50	3.50
March 18 Subsistence, Paraiso	2.00	2.00
Marily 19 Subsisfence Paraiso	2.00	2. 0:0
Marila 20 0	2.00	2.00
March 21 Subsigher Panama & Paraiso	2.00	2.00
March 22 " Paraiso & Groz al	2.00	2.00
march 23 Subsistence Paraise and matachin	2.00	2.00
		29.40

D E F G

H

K

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N

0 P Q R

	tr,	2/6.48
March 24 - Subsistence Paraiso	2.00	2.00
March 25 Subsistance Paraiso & Frijoles	2.00	2 30
March 26 Subsistant Panaua and Parano	2.50	2.50
March 27 Subsistence Paraiso & Frijoles	2.00	2.00
March 28 Subsistance Parcisso	2-00	2.00
March 29 Subsistence Paraiso & Colon	2.50	2.50
	2.50	2.00
March 31 Subrobern Pararo & Colon	2.50	•
Sauch from Colon to Tovo Point & ret.	2.00	4.50
April 1 Subristence Paraire & Panama	2.50	2.50
Aprol 2 4	2.50	2 00
4 3 4	2.00	2.00
11 4 " & Culebra	2.00	2.00
1 5 " Parriew & Redding	2:00	2.00
1 1 6 11 Paraiso	2.00	2.00
"I & Paronoso and Satur !!	2.00	
of Terry & boat hire at Bolio	1.00	3.00
1 8 11 Parairo & Bolio	3.00	
Ferry & boathire, Bohio	1.00	3,00
V 9 Subsistence Paraisa & Panama	2.50	4.50
Laurdy	1.50	276-08
	3-10 4:01	277 58

H X L M N O P Q R

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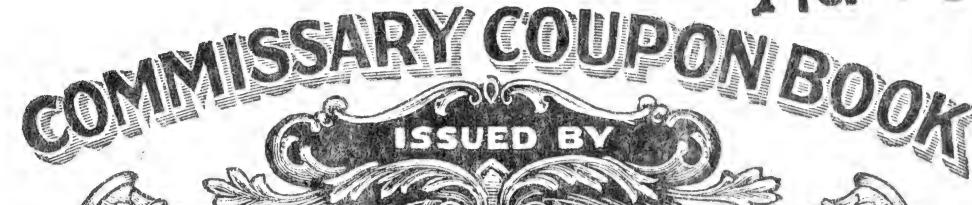
Inc Ma





FORM X-130

No. 103503Y



ISTHUIAN CANAL COMMISSION

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MUST BE USED WITHIN SIXTY DAYS FROM DATE OF ISSUE AND WILL NOT BE HONORED UNLESS ISSUED BY AUTHORIZED PARTY



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This coupon book is good for Fifteen Dollars (\$15.00) in exchange for commissary supplies when presented by party to whom it has been sold with the agreement on his part that the value of same may be collected on the next succeeding pay day from such pay as may be due him.

It is further stipulated and agreed that this book is not transferable and if presented by any other than the subscriber it may be taken up, turned in to Examiner of Accounts of the Isthmian Canal Commission, Empire, C. Z., and the right to its further use forfeited.

Panama Rail Road Co.,
GEO. W. GOETHALS,

President.

I understand the above and fully agree to its provisions.

Employee.)

(Witness.)

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Issued	by					
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date and Commissary at which first presented.

198UING COUPON NO. 1.







'ersigned By

Signature of Employee.

in Commissary

RAIL ROAD Coupon Book Dollars,

COMPANY the

103503 Y







Signature of Employee.

RAIL ROAD COMPANY the Dollars, Commissary Coupon Book

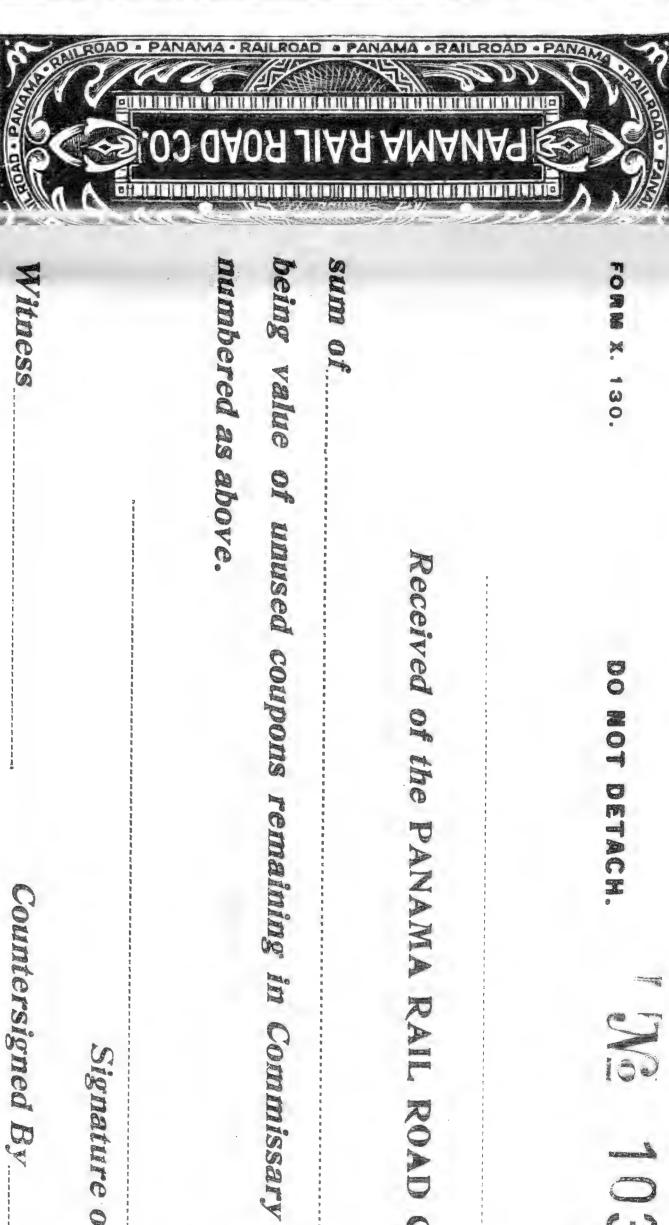
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S

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Dollars

numbered as above.

Witness

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Commissary Coupon Books will be issued to any employee of the Isthmian Canal Commission who has wages due him in the current month

subject to the following conditions:

1. Books will not be issued to Gold Employes for more than  $66\frac{2}{3}$  per cent. of their monthly salary or wage, and to Silver Employes for more than \$15.00 per month, in no case to exceed the amount earned by said employee at time of issue.

2. This book must not be honored when first presented unless it is properly signed, witnessed and validated, and contains the first and fourth issuing coupons. If these conditions are not complied with the book must be taken up and forwarded (not canceled) to the Examiner of Accounts, Isthmian Canal Commission, for completion.

If the book is presented by other than the person to whom issued it will be confiscated, and forwarded to the Examiner of Accounts, Isthmian Canal Commission.

Parties issuing books will be held personally responsible for any loss resulting from an improper issue of, or accounting for Commissary

Coupon Books.

If this book is lost immediate notice should be given to the Subsistence Officer, and Local Auditor of the Panama Rail Road Co., but it is understood that neither the Isthmian Canal Commission nor the Panama Rail Road Company will not be responsible or reimburse the owner for the value of such unused coupons if book is not recovered.



67

W A Y Z

68

Boxes sent to Washington

70

Box 1. Sent by Bush to Dep't Age of Mr. Susser Boxes 2-9" " " to Dr. Dyar

Box 10 Sent by S. To Howard, Feb 2, 1911, containing 4 matily boxes, I paper package with lighted galls and some loose cotton bolls showing work of B. Pyrabid moty 2) Box. 11. Sent by S. to Howard tela 2, 1911 containing 9 pell boxes with mise insects, mouse by H. S. B.

Box 12. Sout by S. to Howard, Febr. 2,1911, containing many pill boxes with mirrellaneous inserts, mostly collected at Paraiso.

4/Box 14. Sent by S. to Howard, Febr 12 Containing some alcoholic specimens

5) Box 15 Sent by S. to Howeverd Feb 12 Contains field boxes with imperits sollected top to date.

6 Box 23 Sent by S. To Howard, Febr. 24th Contains 21 pll boxes of insects: months by 14. 8.13

T) Box 24 Sent to Howard by S. For March 11, 1911. Contains many pill boxes

8) Box 25 Sent to Howard by S. Marril 13, 1911 Contains histogro material mostly alsoletic sperimens. Wooder box

9/ Box 26 Sout to Hours by S. Incard 13, 194. Contains
4 poil boxes, 3 enated boxes, 3 envelopes.

10) Box 27 Sout to Howard by S. March 13, 1911. Contains loose Ovadge leaves from Paraiso and thing of Light sum with Scale inserts.

M. Box 28 (Scale inserts, probably Lecanium vigrum); larger wooden box sent to Dr. Howard by S. from Paraisa

proch 16 th 1911

12. Box. 29 Small wooden box containing 14 pill boxes may with mirrell. inserts mostly from Paraire, I.C.J. Sent to In Howard by S. March 24, 1911

13/ Box 30. Small wooden box contains :3 pll boxes inthe of miscell. insects, 2 pll boxes with I Attelea flowers (the smaller insects on them still alsoc) I fill box with a inass of their open covers (communical value at Panama about 50 cuterpuss) 1, the box with a thrown loop papar of an ?? He grodes on a Suavo leaf, Covagal, travel 22, 194. Sout to Dr. Howard by S. March 24, 1911.

24th 1911

Rough build Sent to Dr. Howard by March 24, 1911.

14/ Package 31. Wrapped in paper containing an Acadia pod from

Package 31. Wrapped in paper containing an Acaeria good from
Old Panama being the food-plant of a large Breedens There
have ple are planty of escarineus of their Brecokers in one of
the pull box as in Box. 29. The Arnelius comment to emaye at Param
from the middle of mark
15) Package 32 Rough bundle in paper. Some as No. 31. Sunt
to Dr. Howard by S. March 24, 1911.

16) Package 33 sent to Dr. Howard by S. Contains some pinned specimens mostly depidoptera, Larger wooden box inclosing a pasteboard box. List of specimens sent along, Paraiso March 25, 1911.

Package 34 sent to Dr. Howard. Smaller wooder, hox contains

cet Paraiso and inferted with an Alegrodes (l. p. and i.). Collegted March 24th and mailed Money 25th.

18/ Parkage 35 Pods of vine and vial containing one Brushus brid from them March 26, 1911

19) Parkage 36 Pods of vine (small blue flowers). March 26,1911 - Rhymer or Police delicer, ...

20) Package 37 Pools from small tree (All plantation)
Marih 36,1911 Danie of Pile.

21) Parkaye 38 Serales on Ovelesd from Longong
April 1st, 1911. The Orderd belays to gences Maxillaria

22/ Package 39 14 Pill-boxes with reserts all in a small wooden lox. April 3, 1911.

23 Parkage \$ 40 Rough nuts of a probably cultivated tree; enclosing small vial with the Bruches inhabiting the words. April 3, 1911
24) Package 41. This is a duplication of Package 35. April 3, 1911

14 pel boxes of mirell insets, and with 2 small work with a fine very minute surets.

26/ Parkage 43 April 10th, 1911. This is a re-daylication of parkage ho. 35. Pods of a viner [ food plant of beautiful Brushers.

27 Package 44 April 10th 1911. Parts of a fruit from
Volcano Chirigai, 2100 metres. given me by Sr. H. Pither,
also small vial containing a Scalytil boring in them.

May 200 tackage It. - / I mall wooden box. containing "pull boxes of new allawown construction of clay the Canal Jone, the 2 small vials with a few very unicule sperimons ( The vials boy duly Caleby), also (to fill up) a land shall from Porto Bells, four about 200 feet above Package 45 - Gigar box. L. Loose in box: Pods of a Free (at present neither leaves nor flower on the tree! commen in the suburbs of Panama; if notice the pods should hardour a Brushus Though I fail to see environ " Pseudoungrana" Acarria trees jobso sempe speermens of the Brushus inhabitang the pors 3) match for with a few Conge Xerminterions Partinge 45. May 2 de Sertion of fig tree 46 " " " " some fy here Porkeye 48 11 11 Food play to of Brushus Package bosely wrapped in paper (duplicate of project of small vial containing) Bruils us brick therefrom Package trojety to rappe de 1'11 proper 2 match boxes Tods of Bendongruna Acceria from Covozal with small vices of Brushus Gred

Lain, phlueur nemativium Scolgtids Aulouicen Endoughide mean Hypophloeus ph evitus Ly Cophilus 2 Bandrid Balofus Elepas Parkage 50 Sweepings from electric light places at Auson Parokase 469 Scale Lung on Lauren (av Persea?) 2 major boxes Pads of the "Pseudony may Moura Samples of the Brechery break from them. Collabor at Corozal, bred iday April. Parkage Coursely wrapper in paper. Books, duplinate the by harrage ho. ; also small will with Brushers bout from they Paraiso while 1011 Bill bax, duly Calcled, cutary tents of a legenseems wice colso small will with the Bruskers tred becafun. Perkage ho sep Sial Insert on Exames 3/ Parkayer 45-46 Seeping of a filler fig thee as no 45-46 a faller free probably the same Trees

April 25 descripplilaters Memalitien Scolgtids Austonicen Endougeliste mean Hypopulaeus ph critica Ly Cophilus 2 Barrard Balofus Elster Lohynes Parkage 50 Sweepings from electric light places at Auson Parkase 49 Scale Lung on Lauren (or Persea?) 2 Mapole boxen Pads of the "Pseudong man Moura Samples of the Brushey brest from them. Collected at Corozal, bred iday And. Fairleye Coursely wroper in paper. Does duplinate the by harrage no. also small will with Bruker brot from then Para:20, while 1911 Bill bax, duly Cabelia, cutary tends of a leguninery uple calzo small by'el with the Brushes but breating Perkage ho 49 Stale Inset on Laures 3p Parkayer 75-46 Senting of a fill the a, his 45-46 probably de same times

# Park. 31. 13 pill boxes

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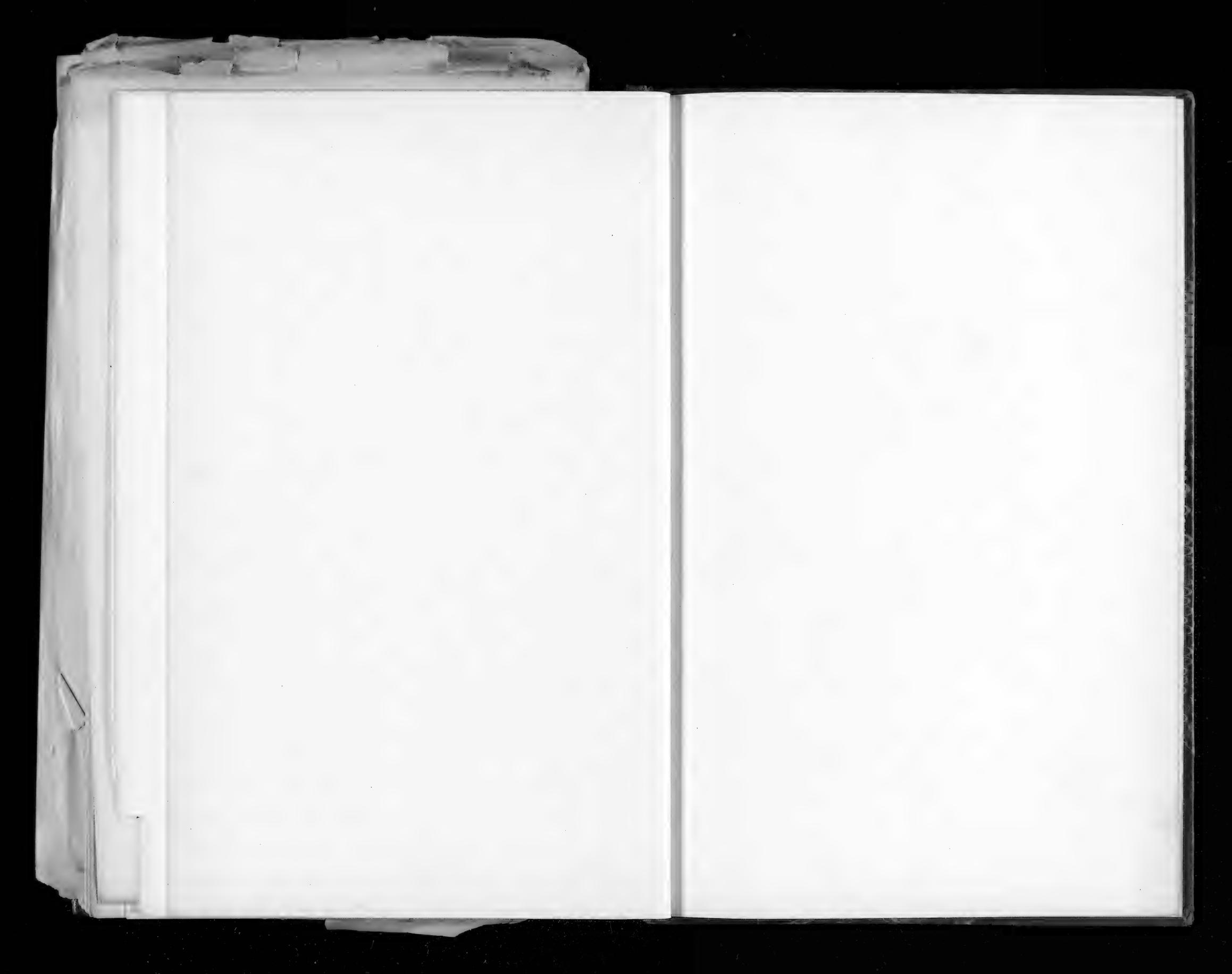
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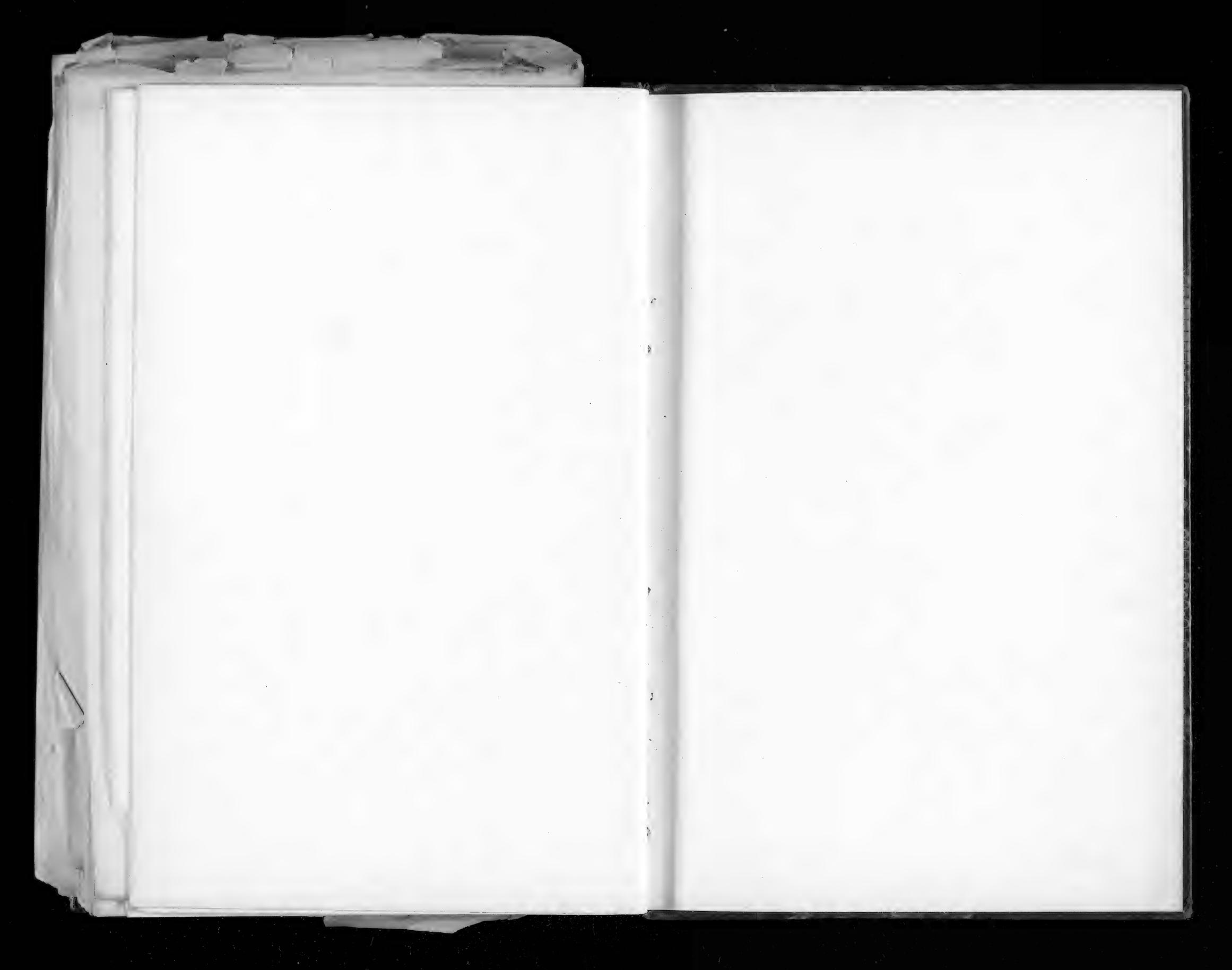
MOITUTITZMI NAINOZHTIMZ

Package 44. - / Small wooden box. containing 11 pill boxes of ness claudown vorsts extent day the Canal Zone, the 2 small vials with a few org unicular specimens ( the vials boy duly Calcali), also (to fill up) a land shell from Porto Bells, four about 200 feet above Partiage 45 - Cigar box. L Loose In box: Pods of a Free (at present neither leaves nor flower on the tree! commen in the suburbs of Panama. if notice the pois should hartour on Brushus Though I fail to see environ of it 2/ Small passe board box with some pass of one of the " Pseudoungrina" Acaroia trees jobso serpes of en uneus of the Brushus inhabitang the ports 3) match for with a few Conge Kerninker our Partinge 45. May 2 Letion of fig here Food players of Brushus Package Goody duplicate of proken 36) with small wat wetaring Bruihus brid therefrom Parkage toosety wrong in prays 2 Match boxes" Todo of Bendonguna Acceria from Corozal with small vial of Brushus bred Therefreen

May 200

STUVWAYZ





A. S. Department of Agriculture

MEMORANDUM

OF

TRAVELING EXPENSES

From Jan, 3 -d , 1911

To Febr 4 , 1911

Use this Memorandum; it will assist you in making up your account. Retain for future reference. ::::

A. S. Department of Agriculture

## MEMORANDUM

OF

# TRAVELING EXPENSES

From John. 3 rd , 19/ To 4 , 19//

Use this Memorandum; it will assist you in making up your account. Retain for future reference. : : : :

#### SUGGESTIONS TO TRAVELERS.

Don't exceed \$5.00 a day for meals, lodging, bath, and waiter fees, the latter not to exceed 30 cents.

Don't exceed 25 cents a day for porter fees on sleeping cars. Don't exceed 10 cents for porter fees on parlor or chair cars.

Don't exceed \$1.25 a week for laundry; 20 cents for each additional day. Don't bring forward charges for laundry from previous account.

Don't exceed 10 cents for porter fees at stations or hotels. Don't charge for hotel porter except on arrival and departure.

Don't exceed 10 cents for checking personal baggage.

Don't exceed 50 cents for transfer of self and 50 cents for transfer of baggage between hotels and stations.

Don't purchase railroad tickets when transportation requests can be used, unless distance is less than 100 miles. A charge for cash railroad or Pullman fare must show starting point and destination.

Don't incur ANY expense not covered by letter of authority.

Subvouchers must be taken for lodging, special transportation, personal services, express and freight shipments, and all purchases in excess of \$1.50.

Subvouchers for express shipments must show weight and contents of each shipment.

The signature to a receipt must agree with name at top of subvoucher. In case of an incorporated or nonincorporated company, the full name and title of signer must be given.

Render accounts once a month; include all expenses incurred during the month; enteritems in chronological order.

Always state date and hour of departure and arrival.

Give initials of railroad when cash fare is paid.

Always state time, distance, terminal points, and rate when stage, carriage, or other special transportation is used.

Enter waiter tips and street-car fares each day.

Designate meals on trains as "en route;" the point at which any other meal, not included in hotel subvouchers, is taken, must be shown.

Explain any apparent duplication of expense or any unusual expenditure. A. ZAPPONE, Chief, Division of Accounts, and Disbursing Clerk.

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